

HAMMATT-DICKEY COMPANY

- | | | |
|----------------------|-----------------------|------------------------------|
| 1. Emerald | 6. Oriental Zircon | 11. Siberian Amethyst |
| 2. Sapphire | 7. Garnet (Almondine) | 12. Opal, precious |
| 3. Oriental Amethyst | 8. Jargoon | 13. Persian Turquoise Matrix |
| 4. Ruby | 9. Rhodolite | 14. Blood Stone (Scarab) |
| 5. Aqua Marine | 10. Mexican Opal | 15. Mexican Turquoise Matrix |

Hammatt-Dickey Company

SUCCESSORS to C. E. Sherwood, New York

Miners, Cutters and Importers

OF

Precious and Semi-Precious
Stones

Jacksonville, Florida

U. S. A.

New York Office: 49 Maiden Lane

C. S. HAMMATT, President

R. N. DICKEY, Vice President

GEO. L. DREW, Secretary



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HAMMATT DICKET

1. Emerald
2. Sapphire
3. Oriental Amethyst
4. Ruby
5. Aqua Marine

6. Oriental Diamond
7. Garnet
8. Jasper
9. Rhodochry
10. Mexican Opal

11. Oriental Pearl
12. Pearl
13. Pearl
14. Pearl
15. Pearl

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Jacksonville, Fla.

Hall Printing Company
Jacksonville, Fla.

Foreword

The cost of compiling this Catalogue and Hand-Book of Precious Stones is possibly ten times as great as that of any other Gem Catalogue ever issued. The information we give has been compiled from well-known authorities and proven by us in our business experience and in our laboratories, and we can assure you it is correct. We call your attention to the fact that we have departed from the usual custom of placing the Diamond first in value. In a general way the Diamond is first; at the same time a 5 carat Ruby, Sapphire or Emerald, absolutely perfect in color, free from flaws and perfectly cut, will bring several times as much as a Diamond, white in color, of the same size and degree of perfection, and will find a buyer much quicker.

There is no field that offers the jeweler the opportunities that the sale of precious and semi-precious stones (other than Diamonds) does, no branch of his business that pays such big profits on a small investment. Diamonds seldom ever pay the jeweler 10 per cent. profit, are slow sale and require large outlays of capital. Colored stones seldom ever pay the jeweler less than 100 per cent. and usually much more, and are quick sales if properly handled.

We desire to go on record here as being the originators of the "Hand-Book" Catalogue idea in the precious stone business, as we believe some few firms, who are able to do so, will try to imitate us. However, we are sure our publications will always remain the standard.

We are glad at any time to give you any information desired about any stone, whether you wish to purchase or not. Do not hesitate to write us.

TERMS, Etc.

On all items for labor bills must be paid not later than the 10th of the succeeding month in which work is done, and is net.

Our terms on orders amounting to less than \$50.00 are 2 per cent. 30 days; net, 60 days.

Orders amounting to \$50.00 or more, 4 months net if notes are given.

Orders amounting to over \$500.00 can be arranged by giving notes to run on an average of four months.

We ship by registered mail where order is small and by express on large orders.

We do not pay mail or express charges.

Care should be taken to specify sizes and qualities in placing order. When you send us a stone to be matched we endeavor to match it in color, quality, size, cuttings and markings. Sometimes a **similar color and quality** will suffice, **but we do not know this unless told.**

In ordering Oriental stones it is always best to state about the price and color wanted.

When prices per dozen are not given, same will be sent upon request.

MEMO-PACKAGES.

While we are always glad to submit Memo-Packages, we ask that you use ordinary care in stating the number of stones, size and about what price you wish to pay, and report promptly. In a business like ours sometimes thousands of dollars worth of gems are unavailable for immediate shipment on account of these special goods being out on memo.

If you have not an account with us, kindly furnish us the names of two concerns, with whom you do business, as reference.



GEM CUTTING.

The wealth of the world has been increasing by leaps and bounds, and the requirements of civilized peoples for articles of art and adornment promise to outstrip their production. This is especially true of natural objects, such as precious stones. There are very few discoveries of new deposits of precious stones, and the percentage of fine material is always small compared to the quantity actually mined.

With the increase of wealth and its attendant culture the reign of the Diamond has been seriously threatened. The American ladies are not satisfied with a number of diamond ornaments alone—they require Amethysts, Kunzites, Pink Tourmalines, Pink Topazes, Aquamarines, Green Tourmalines, Peridots, Olivines, Rubies, Emeralds, Topazes, Turquoises and numerous other delicately tinted stones to match their costumes or enhance their particular style of beauty.

The demand for the precious and so-called semi-precious stones has opened great possibilities for the manufacturer and retailer. A brooch, bracelet or

chain containing certain colored precious or semi-precious stones that match a costume, becomes an integral part of a lady's dress, and is as necessary as a suitable hat or a pair of gloves.

Among the many stones in vogue none is more beautiful than the American Aquamarines, Tourmalines, Amethysts, Peridots and Kunzites, some of which we mine exclusively and all of which we cut in our New York and Jacksonville lapidaries. The list of other American stones which we cut includes Amazonite, Rose Quartz, Golden Beryl, Thompsonites, Chlorastrolites, Arizona Garnets, etc.

Besides gems cut from American rough we make a specialty of cutting up fine imported rough, such as Siberian, Uruguay and Brazilian Amethysts, Madeira and Golden Topazes, Persian Turquoise Matrix, Opals, both in gem quality and fine matrix; Brazilian Aquamarines, Rubies, Sapphires, Emeralds, etc. We cut to the angle of light, and the result is always a brilliant gem, costing a trifle more perhaps than the imported stone, but greatly superior in beauty.

In short, we are constant buyers of rough gem material of all kinds and we aim to sell every stone but the Diamond. Our mottoes are "From mines to you," and "Buy from the cutters direct," and we believe that they both appeal to practical merchants.

NOTE FOR SECTION I.

The chemical composition of gems given by different authorities vary considerably. We have, therefore, quoted what we believe to be the most accurate authority on the subject. However, the chemical composition is never identical in two stones of the same material, one usually containing more or less coloring matter than the other.

Section I

Gem Stones, Oriental (or true) Stones, Pearls Corals, Genuine Reconstructed Gems Scientific Gems, 2 Piece Stones

RUBY.

Chemical composition:

Alumina	98.5
Oxide of Iron	1.0
Lime .....	.5
<i>Luster</i>	Vitreous, very lively
<i>Hardness</i>	8.5 to 9
<i>Specific gravity</i>	3.9 to 4.2
<i>Color</i>	All shades of red

The color resembling fresh pigeon blood is considered the best and is, therefore, the most expensive.

Price \$20.00 to \$300.00 per carat.

All sizes and qualities in stock.

SAPPHIRES.

Chemical composition:

Same as Ruby.

<i>Luster</i>	Same as Ruby
<i>Hardness</i>	9
<i>Specific gravity</i>	3.9 to 4.2
<i>Color</i> —	

Cornflower Blue	Oriental Sapphire
Green	Oriental Emerald
Yellow	Oriental Topaz

(Note—Fine yellows are often mistaken for
Canary Diamonds.)

Purple

Asteria or Star Stones are Oriental Sapphires that have a peculiar star-like marking when cut.

Price \$10.00 to \$200.00 per carat.

All sizes, colors and qualities in stock. We carry the largest stock of fine Sapphires in the United States.

One of the most beautiful and popular of our native gems is the Montana Sapphire—of a bright, clean, electric blue color. This gem is particularly advantageous for the manufacture of moderate-priced jewelry, because of its regularity of shape and color. The demand for Montana Sapphires in desirable sizes and shapes is great, and we are in position to offer some finely graded stones at reasonable prices.

Prices on application.

DIAMOND.*Chemical Composition:*

Carbon	100
Luster.....	Brilliantly adamantine
Hardness	10
Specific gravity	3.52
Color	Colorless, yellow, red, blue, brown, pink, green, black

Price \$85.00 to \$250.00 per carat.

Sizes in stock 1-64 to 5 carats.

EMERALD.*Chemical composition:*

Silica	66.8
Glucina	14.1
Alumina	19.1
Luster.....	Vitreous or resinous
Hardness	7.5 to 8
Specific gravity	2.63 to 2.75
Color.....	Emerald green (or that of young grass in spring of the year.) Frequently parti-colored. Flaws resembling feathers are a characteristic of this stone.

Price \$5.00 to \$200.00 per carat.

Good stock always on hand.

AQUAMARINE.*Chemical composition:*

Same as Emerald.

Luster	Vitreous
Hardness	7.5 to 8
Specific gravity	2.63 to 2.75
Color.....	Colorless, sea green and blue green

Price \$3.00 to \$25.00 per carat.

We control the entire output of a very fine mine and only cut and market gem stones. Very low grade we sell only in rough. We can save you money on gem quality Aquamarines. We are always glad to send memo. package for comparison.

ZIRCON OR JARGOON.*Chemical composition:*

Silica	33
Zirconia	67
Luster	Adamantine
Hardness	7.5
Specific gravity	4.7
Color.....	Brown, yellow, green

Price \$5.00 to \$35.00 per carat.

The demand for Jargoon keeps our stock low, but our Ceylon and New South Wales agents are buying all the rough gem stock that is offered.

PHENAKITE.*Chemical composition:*

Silica	54.2
Glucina	45.8
Luster	Vitreous
Hardness	7.5
Specific gravity	2.996 to 2.99
Color	Colorless and pale yellow

Easily mistaken for a Diamond when cut.

Price \$10.00 to \$50.00 per carat.

Our connections with Peruvian mines enables us to have a fair stock of this stone at all times. A large stock is unobtainable. Cut to order only.

TOURMALINE.*Chemical composition:*

Silica combined with oxide of iron, magnesium, manganese and aluminium and boron in different proportions. Very variable.

Luster	Vitreous
Hardness	7 to 7.5
Specific gravity	2.9 to 3.3
Color.....	Red, blue, green, brown, yellow and black and variegated

Price 20c. to \$15.00 per carat.

We are headquarters for this stone, as we control the output of one of the best gem producing mines in the United States. We can supply any color or quality promptly. Large lots our specialty.

JACINTH.*Chemical composition:*

Same as Jargoon.

Luster	Adamantine
Hardness	7.5
Specific gravity	4.7
Color	Cinnamon

Price \$2.00 to \$10.00 per carat.

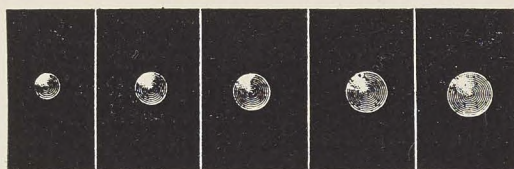
Good supply always on hand.

PERIDOTS OR OLIVINES.*Chemical composition:*

Silica	40.16
Alumina .....	.10
Magnesia	44.37
Protoxide of Iron	15.38
Luster	Vitreous
Hardness	6 to 7
Specific gravity	3.3 to 3.5
Color.....	Chartreuse green

Price \$1.50 to \$20.00 per carat.

We carry a full line of gems in this stone. Cheaper grades cut on order.



1 grain 2 grain 3 grain 4 grain 5 grain



6 grain 7 grain 8 grain Button
4 grain Pear
4 grain

ORIENTAL PEARL.

Although the Pearl is an organic product, it has always ranked amongst the most precious of gems, as it has the distinction of being the only gem that does not require the lapidary's touch to bring out its beauties.

Specific gravity, 2.5 to 2.7.

Color: Pure white, slightly transparent, is most highly prized. Decided colors, such as black, pink and golden yellow, if perfect in shape, are much sought after and command good prices.

Prices vary very much, according to size and quality; they are sold by the grain, 4 grains equal to 1 carat. When a Pearl weighs over 1 grain they are sold on a base price. The base of Pearls is figured by multiplying the weight of the Pearl by the figure of the base price, and the result *again* by the weight. For instance a Pearl of $2\frac{3}{4}$ grains weight at \$2.00 base: $2\frac{3}{4} \times \$2.00 = \5.50 . Now, multiply again, $\$5.50 \times 2\frac{3}{4} = \15.12 , which is the price of the Pearl. This method applies only to gem qualities; commercial grades are figured by flat price of so much per grain.

We can supply all grades and at almost any price.

We repair broken or discolored Pearls.

SPINEL.

Chemical composition:

Alumina	72.0
Magnesia	28.0
Luster	Vitreous
Hardness	8
Specific gravity	5.5 to 3.6
Color	Red, blue, green, pink, orange, brown, black

Price \$5.00 to \$10.00 per carat.

Good assortment of sizes, colors and quality usually in stock.

CHRYSOLEITE.

Same as Olivine, except in color, which is primrose yellow.

GARNET.*Chemical composition:*

Silica	36
Alumina	21
Oxide of Iron	33
Oxide of Manganese	2
Magnesia	4
Zinc	2

Very variable.

<i>Luster</i>	Vitreous
<i>Hardness</i>	6.5 to 7.5
<i>Specific gravity</i>	3.15 to 4.3
<i>Color</i>	All shades of red and brown

Price 50c. to \$8.00 per carat.

Large stock of cut and rough always on hand. We call special attention to the fine cutting of our Garnets of this, the gem grades.

HIDDENITE.*Chemical composition:*

Silica	60.14
Alumina	27.02
Peroxide of Iron .....	.32
Lithia	3.84
Soda	2.68

<i>Luster</i>	Vitreous
<i>Hardness</i>	6.5 to 7
<i>Specific gravity</i>	3
<i>Color</i>	Grass green

Named after Prof. Hidden of North Carolina, and is only found in North Carolina, U. S. A.

Price on application.

Very limited stock; but can secure it on short notice.

SPODUMENE.*Chemical composition:*

Silica	60.14
Alumina	27.02
Peroxide of Iron .....	.32
Lithia	3.84
Soda	2.68

<i>Luster</i>	Poor, but vitreous on cross fractured surfaces
<i>Hardness</i>	6.5 to 7
<i>Specific gravity</i>	3.2
<i>Color</i>	Primrose yellow, greenish yellow

Price on application.

* Cut to order only. Good stock of rough in medium grades.

ALEXANDRITE.

Same as Chrysoberyl, except Alexandrite changes color, looking at it from different angles, and in artificial light.

Price \$2.00 to \$20.00 per carat.

CATSEYE.

Same as Chrysoberyl and Alexandrite, except that Catseye is Chatoyant.

Price \$2.00 to \$10.00 per carat.

Can fill orders for medium quality promptly. Gems are scarce.

CHRYSOBERYL.*Chemical composition:*

Alumina	80.2
Glucina	19.8
Luster	Vitreous
Hardness	8.5
Specific gravity	3.5 to 3.8
Color.....	Yellow, brown and sage green

Price \$1.00 to \$10.00 per carat.

Small stock of gem stones and large stock of medium grade.

AXINITE.*Chemical Composition:*

Silicate of Lime.	
Alumina.	
Sesqui-Oxides of Iron.	
Manganese, with a little boracic acid and magnesia.	
Luster.....	Highly vitreous
Hardness	6.5 to 7
Specific gravity	3.27
Color.....	Purplish blue, brown and gray

Price on application.

Cut to order only.

DIOPSIDE.*Chemical composition:*

Silica	47.63
Lime	20.87
Magnesia	12.9
Alumina	6.74
Protoxide of iron	11.39
Protoxide of manganese .....	.20
Water .....	.29
Luster.....	Vitreous inclining to resinous
Hardness	5 to 6
Specific gravity	3.2 to 3.5
Color.....	Grayish white and grayish green

Price on application.

Cut to order only.

SPHENE OR TITANITE.*Chemical composition:*

Silica	30.35
Titanic acid	33.43
Lime	21.33
<i>Luster</i>	Adamantine to resinous
<i>Hardness</i>	5 to 5.5
<i>Specific gravity</i>	3.4 to 3.56
<i>Color</i>	Golden yellow to brown

Price \$1.00 to \$5.00 per carat.

Limited stock only.

EUCLASE.*Chemical composition:*

Silica	43.22
Alumina	30.56
Peroxide of Iron	2.22
Glucina	21.78
Oxide of Tin .....	.70
<i>Luster</i>	Vitreous
<i>Hardness</i>	7.5
<i>Specific gravity</i>	3.03 to 3.09
<i>Color</i>	Bluish green

Very brittle and easily chipped when set in jewelry.

Price on application.

Stock very limited.

PRECIOUS OPAL.*Chemical composition:*

Hydrous Silica.

<i>Luster</i>	Sub-vitreous
<i>Hardness</i>	3.5 to 6.5
<i>Specific gravity</i>	3.21
<i>Color</i>	Almost colorless, iridescent

Price 50c. to \$20.00 per carat.

Large stock of gems and medium grades. For cheaper varieties see jobbing stores.

TURQUOISE.*Chemical composition:*

Alumina	47.45
Phosphoric Acid	27.34
Oxide of Copper	1.10
Peroxide of Manganese .....	.50
Phosphate of Lime	3.42
Water	18.17
<i>Luster</i>	Rather waxy, internally dull
<i>Hardness</i>	6
<i>Specific gravity</i>	2.6 to 2.8
<i>Color</i>	Sky blue, bluish green

Price 50c. to \$5.00 per carat.

Our agents in Mexico and Persia buy Gem Turquoise in large lots cheaper than we could mine it if the mines were given to us.

Exceptionally large stock of medium and high-grade gems.

EPIDOTE.*Chemical composition:*

Silica	36.14
Alumina	22.24
Peroxide of Iron	14.29
Lime	22.86
Magnesia	2.38
Protoxide of Manganese	2.12

Variable.

<i>Luster</i>	Vitreous, pearly on cleavage planes
<i>Hardness</i>	6 to 7
<i>Specific gravity</i>	3.2 to 3.5
<i>Color</i>	Green, yellow, gray, red and black

Price on application.

Cut to order only.

MOON STONE.*Chemical composition:*

Silica	65.69
Alumina	17.97
Potash	13.99
Lime	1.34
Soda	1.01

<i>Luster</i>	Vitreous to pearly on cleavage
<i>Hardness</i>	6
<i>Specific gravity</i>	2.39 to 2.62
<i>Color</i>	Colorless and bluish white

Price 20c. to \$3.00 per pennyweight.

Very large stock of fine quality; also good stock of rough for special order cutting.

IOLITE.*Chemical composition:*

Silica	48.33
Alumina	31.71
Magnesia	10.16
Protoxide of Iron	8.32
Protoxide of Manganese .....	.34
Water .....	.58

<i>Luster</i>	Vitreous
<i>Hardness</i>	7 to 7.5
<i>Specific gravity</i>	2.6 to 2.7
<i>Color</i>	Smoky bluish gray

Price on application.

Small stock.

THE DIAMONDINE.

Is a natural precious gem and the substitute for a Diamond the jeweler has been looking for for ages.

Brilliancy and hardness 80 per cent. of a Diamond by actual scientific test; cut in sizes from $\frac{1}{2}$ to 2 carats.

Price \$3.50 to \$5.00 per carat.

AMETHYST.*Chemical composition:*

Silica	100
Luster.....	Vitreous, occasionally resinous
Hardness	7
Specific gravity	2.5 to 2.8
Color	Purple

Price \$1.00 to \$10.00 per carat.

Price depends on color, perfection and luster. For American Amethyst see jobbing stores. American Amethysts are sold by the pennyweight.

Largest stock of fancy and large size Amethysts in America.

CAIRNGORM.

Same as fine Amethyst, except colors are brown and yellow.

Prices on application.

LAPIS LAZULI.

(The Sapphire of the Ancients.)

Chemical composition:

Silica	45.00
Alumina	31.76
Soda	9.09
Lime	3.52
Sulphuric Acid	5.89

and traces of Iron and Potash.

Luster.....	Vitreous to greasy
Hardness	5 to 5.5
Specific gravity	2.38 to 2.42
Color.....	Rich azure blue

Price 25c. to \$5.00 per carat.

We carry cheaper commercial grades, which we sell by the pennyweight.

TOPAZ.*Chemical composition:*

Silica	16.2
Alumina	55.7
Fluorine of Silicium	28.1
Luster.....	Vitreous
Hardness	8
Specific Gravity	3.4 to 3.6
Color	Golden yellow, brown, blue, pink and colorless

Price: Common or American Topaz, 50c. to \$5.00 per dwt.; Fine or Gem Topaz, \$1.00 to \$30.00 per carat.

Stock always complete. Large stock of rough for special cutting always on hand.

MALACHITE AND MAL-AZURITE.*Chemical composition:*

Carbonic Acid	20.0
Protoxide of Copper	71.8
Water	8.0
<i>Luster</i>	Vitreous to adamantine
<i>Hardness</i>	3.5 to 4
<i>Specific gravity</i>	3.6 to 4
<i>Colors</i> —Emerald and verdigris green and alternating stripes of different shades of green.	

Price 25c. to \$5.00 per carat.

Mal-Azurite is a mixture of Malachite and Azurite (blue) in alternating stripes. A new stone.

Price 25c. to \$6.00 per carat.

CORAL.

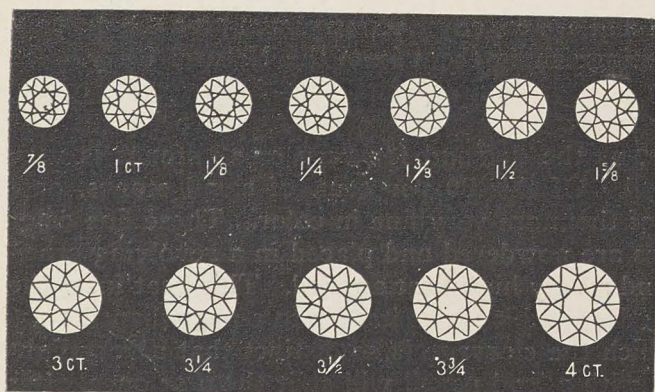
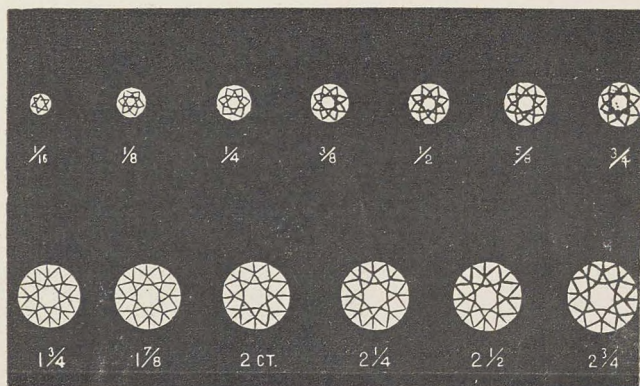
We are importers of gem qualities of both Mediterranean and Japanese Coral and make a specialty of matching and cutting to order.

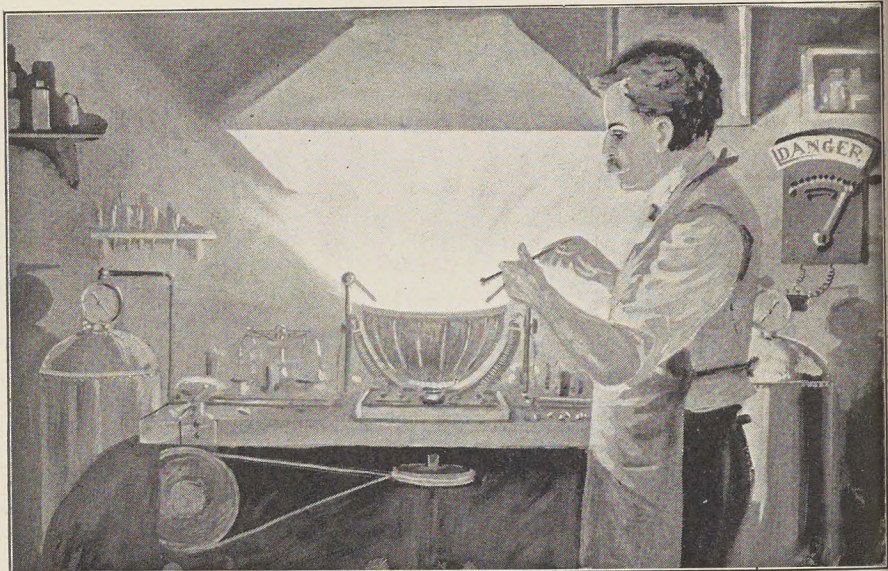
STONES NOT LISTED OTHERWISE.

Besides the stones listed in this book we can always furnish you on short notice any of the following. We have a most complete system of buying and exchange agencies, both in America and abroad, in the stone centers of the world:

Cymophane,	Moldavite,	Amazon Stone,
Hessonite,	Hypersthene,	Sun Stone,
Spessartite,	Bronzite,	Labradorite,
Pyrope,	Bastite,	Satin Spar,
Rhodolite,	Nephrite,	Flour Spar,
Demantoid,	Jade, Chinese,	Apatite,
Grossularite,	Jade, American,	Iron-Pyrites,
Melanite,	Quartz (all kinds),	Ilmenite,
Topazolite,	Kyanite,	Rutile,
Lazulite,	Stanrolite,	Amber,
Callainite,	Andalusite,	Jet,
Cordierite,	Piedmontite,	Rhodonite,
Idocrase,	Garnierite,	Jadeite,
Elaeolite,	Prehnite,	Carnelian,
Cancrinite,	Thompsonite,	Agates,
Hauynite,	Natrolite,	Chalcedony,
Sodalite,	Hemimorphite,	Chessylite.
Obsidian,	Calamine,	Amatrice

Approximate Sizes of Round Brilliant Cut Stones
in Carats.





RECONSTRUCTED RUBIES.

These stones are genuine in every sense of the word and are called "Reconstructed" for the purpose of distinguishing them from the Natural Ruby.

It is a well-known fact that 80 per cent. of the Natural Rubies mined are too small to be cut into gems, as the demand for very small stones is very limited. Of this 80 per cent. of small stones, one-half of them are very fine in color. These fine color stones are powdered and placed in a revolving crucible and a very high heat applied. This heat fuses the Ruby dust and it forms itself into a pear-shaped mass in which the cleavage is so distinct that a very light blow with a lead pencil will split them at once, after which it is almost impossible to cleave them again. Their hardness and specific gravity are identical to that of the Natural Ruby. The color of the best grades is equal to that of the finest Burmese Pigeon Blood Natural Rubies. Practically the only way a genuine Reconstructed Ruby can be distinguished

from a Natural Ruby is by its air bubbles. Both Reconstructed and Natural Rubies have these air bubbles, and while in fine grades they can be seen only by the aid of a powerful microscope, the bubbles in the Reconstructed gems are larger and of a different shape to those in the natural gem.

We have perfected a process by which these bubbles can be reduced in number and size to less than that of the natural gem by the use of a high electrical current.

Our cheaper grades are much better than any other high-grade reconstructed gems we have ever seen, and our prices nearly, if not, as low. We call attention to the fact that the supply of small Natural Rough Rubies is decreasing at a very fast rate, and the price must naturally advance steadily as the supply diminishes.

The engraving will give you a fair idea of how Genuine Reconstructed Rubies are made by us.

We prefer to sell only in 20 carat assorted lots, but will sell a single stone to dealers or cut a stone to order. We can supply larger stones than any other dealers.

Prices and memoranda packages submitted gladly.

We back your sales of Reconstructed Rubies with our positive guarantee.

SCIENTIFIC RUBIES.

These so-called Rubies are a very hard glass imitation of the Genuine Reconstructed Ruby and are not quite as hard (though near enough to mislead one) as natural Ruby. In color they are much inferior, though approaching that of cheap grades of Rubies. They are easily distinguishable from the cheaper grades of Reconstructed by one accustomed to handling natural and reconstructed gems, and are often sold as genuine reconstructed by unscrupulous dealers. They are made in the United States, but the greater part of those on this market come from France. Prices on application.

SCIENTIFIC SAPPHIRES.

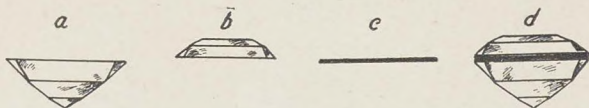
These are the same as Scientific Rubies, except that they are a nearer approach to the Dark Blue Sapphire than the Scientific Ruby is to the Reconstructed Ruby. They are mostly made in France. However, there is a scientist in New York city, whose output we use, who makes a stone so near to the natural gem that we do not hesitate to recommend it as being the nearest approach to the genuine Sapphire of fine color.

Ordinary grades are sold under different trade names, such as Hopf Sapphires, Reconstructed Sapphires, Synthetic Sapphires, Drury Sapphires, etc.

We can supply you with any of the French Scientific Sapphires, but can only recommend the American made gem, and prefer to furnish it only, at about the same price.

Prices and memo-packages on application.

TWO-PIECE EMERALDS.



Engraving shows our method of making two-piece Emeralds.

(a) and (b) being cut from genuine Emerald; (c) a piece of colored strass or coloring matter;

(d) shows finished stone.

This stone, while new in America, is a very old invention and is the origin of the cheap Doublets. It has been made and sold in the Orient for centuries, and usually as a natural one-piece gem, as only fine Emerald could be used. It is made of two pieces of Emerald cut as shown in the engraving and cemented together with a cement that withstands water, alcohol and heat. The only advantage it has to the cutter is that two small pieces, which have a low value on account of size, can be made into one large piece with a seeming value of ten times the original values.

In our best grade we defy detection except by one man, the one who cuts them. We cut several grades and the price depends on quality of stones used and perfection in cutting and joining:

First grade, both pieces made of fine color stones and joined in a way that cannot be detected.

Second grade, top of very fine stone, bottom of cheaper, but good grade. Joint visible under glass.

Cheaper grades, medium grade stones. Joints can be seen on close examination with naked eye.

Price on application.

CORUNDUM.

Of great importance to dealers in precious stones, and one they should have a thorough knowledge of. Corundum, which consists of crystallized alumina, the oxide of the metal aluminium, always occurs in crystals, that is at least crystals whose forms are six sided prisms or pyramids belonging to the rhombohedral system, and in hardness is next to diamond. The value differs principally according to colors, which mostly are produced by small quantities of either magnesia, oxide of iron, silica, although these mixtures do not account for the beautiful blue of the sapphire and the red of the ruby. Colored corundums, when strongly heated, generally change their hue. Of the corundum family we have the sapphire, ruby, oriental amethyst and topaz and a whole host of others down the scale that are particularly identical in composition, but offering a great diversity of color and optical properties. The style of crystals also differs, due to different localities where found and there is also difference due to hue. All sapphire corundum is rated as nine. This, however, is very arbitrary. Corundums possessing a distinct color are invariably dichroic. Many specimens of corundum when heated in a dark room display a beautiful phosphorescence and, when rubbed with cloth or leather, this mineral acquires positive electricity and retains it for considerable time. The precious corundum approaches diamonds in brilliancy, but is vitreous rather than adamantine. The luster is so perfect and fire displayed so marked, that no other stone approaches it

save the diamond. The optical corundum is uniaxal and doubly refracting, but does not show marked flashes of prismatic color. One characteristic of "Oriental" corundum, it is equally beautiful when viewed by artificial light as by daylight.

OPTICAL PROPERTIES OF STONES.

There are many stones that are entitled to special note on account of their peculiar characteristics; that are governed by ordinary laws of reflection and refraction of light, but in many respects this is also due to peculiar conditions present in each stone. In diamonds, the prismatic color comes from refraction and dispersion of light.

Iridescence is produced by cracks in the interior of transparent stones, such as plain cleavage cracks, and may be vacuous or filled with air; this gives rise to what is known as "Neptune's ring," independent of color itself, but owing its effect to passage of white light through the film, and is called interference of light. Rock Crystal therefore, if properly cut with reference to the crack, will bring the prismatic colors near the surface, making a most striking effect; iridescence is also shown to a marked degree in the opal. The moonstone and the catseye have their peculiar streak or wave of reflected light appearing over the whole surface, but which really comes from crystallographic planes, and are best shown when cut and polished with round and convex surfaces.

Labradorescence or change of color is a reflected light from small plates as found in some felspar, that at certain angles to the light, show the most brilliant shades of green, blue, violet, red and yellow and a variety of shades. Without the reflected light, however, they have a dull grey and unattractive appearance.

The Star Stone, known as asterias, owes its characteristic to the same phenomena but is generally found in the ruby and sapphire. Phosphorescence can be found in several of the precious stones, notably among these is the diamond, lapislazuli and topaz. Also the rock crystal, when rubbed against its own substance, displays this characteristic.

ELECTRICAL PROPERTIES.

Many of the precious stones are subject to external electrical influence and retain it for more or less time, and in a venture of scientific mineralogy, a French naturalist, Haüy, spent much time in the study of these characteristics. Until recently, it was thought that the result of his investigations would be the necessary element for determining the real divisions in the mineral family and for ascertaining to what extent different stones were subject to the influence of the electroscope or delicate electrometer. The majority of precious stones are only susceptible to a feeble charge of electricity, the diamond is more pronounced and topaz and tourmaline very strongly so. Those with a smooth face are more susceptible than those with a rough face. In a dry atmosphere the topaz retains an electrification for many hours, the sapphire for half a day and the diamond to small extent over half an hour. A notable condition is that which shows the difference in amount of susceptibility in the colorless and colored stone, more particularly the topaz, sapphire and the diamond. In making these tests the stone should be placed on a metal plate after being subject to electrical influence. Tests should be made very promptly, as many of the stones only retain their charge for a short time. The delicate dead-beat reflecting galvanometer forms an admirable testing instrument. A further notable fact is that pyroelectricity notes the changes of sign, that is, positive or negative, at different points on the surface of the same stones, when such stones as impart positive electrification upon heating, they become negatively electrified on cooling. By means of the electrical test greenish blue topaz can readily be distinguished from the aqua-marine and the red tourmaline from the ruby of the same hue.

The Röntgen or X ray has opened up still another field of investigation for determining the characteristics of gems. By the exhausting of a glass tube to about 1 millionth of an atmosphere, and passing a current of electricity from an induction coil, an invisible radiation is produced that will effect a photographic dryplate, showing to a marked degree the transparent and opaque qualities. Under the Röntgen

ray carbon is transparent while rock crystal, glass, Iceland spar, etc., are opaque, and so on through the range of gems; we are thus enabled to gain many very important proofs of the nature of stones by the aid of electricity in one form or another. Yet it is not necessary to invoke this aid for the ordinary determination of characteristics.

HARDNESS.

To the Viennese minerologist Mohs we owe the present method of determining hardness which is by comparing the hardness of the specimen to be tested to one of a known hardness. Mohs drew up a scale of hardness, using ten transparent minerals, to each of which he gave a number as follows:

- | | |
|---------------|------------------|
| 1. Talc. | 6. Felspar. |
| 2. Rock salt. | 7. Rock crystal. |
| 3. Calcite. | 8. Topaz. |
| 4. Fluorspar. | 9. Sapphire. |
| 5. Apatite. | 10. Diamond. |

This is now universally accepted.

ARTISTIC SETTING OF PRECIOUS STONES.

Connoisseurs will without doubt agree that artistic setting of precious stones depends upon contrast, blending the brilliant with the soft, those of dark rich hue with the transparent, setting each stone at an advantage, and forming a combination at once pleasing to the artistic.

Whether one be a collector of gems, on account of his love and appreciation of precious stones, or because it is a fashionable pursuit, he cannot fail to appreciate the above. For instance, if we set two large or two small diamonds together, we have a pretty display, but surround the large diamond with smaller ones, or a small one on each side of the large one and we have a more pleasing arrangement, while if we bring a still greater contrast into play by combining the diamonds and rubies, we have a setting in which we will discover new beauties every time we look at it. Were we to put the moonstone with the opal, the beauty of both would be lost, while the moonstone forms an ex-

cellent substitute in many instances for the pearl, but does not go so well with the diamond.

Among the red stones, the ruby may be said to rank first. The most valuable of these are those possessing a "pigeon's blood" red. However, the paler ones, while not so valuable, have great decorative value and are very effective when proper combinations are used such as olive-green tourmalines, etc. While the other shades of red that make up the ruby do not vary perceptibly, yet when a stone is properly cut, they help to impart a pleasing play of shades of red. The spinel and garnet, which are closely allied to the ruby in color, do not possess its richness. Rubies are said to be used to greater advantage on gold vessels, the gold and red blending beautifully.

Regarding the yellow stones, few color combinations have been attempted. They are mostly used with delicate shades of enamel, such as buff, gray and white.

The emerald, tourmaline and peridot and zircon, while some people do not approve of the green of the emerald, it is undeniably a fact that the well cut emerald makes a rich and beautiful gem. The peridot, like the "green garnet," is considered too soft a stone to permit its being used in rings, but is advantageously used in combination with violet spinels. The zircons are considered by some the most beautiful of green stones, they possess more velvety green than the emerald.

The green gem harmonizes with the diamond and some of the colorless stones and some fine effects are executed in connection with enamel. Emeralds are somewhat effected by artificial light. Green stones do not form a pleasing effect with blue nor yellow stones.

The emerald for ages has been considered as the most restful for the human eye.

The leading blue stones, which are the sapphire, blue spinel, iolite and lapislazuli themselves suggest a rich yellow dead gold setting. The paler ones should be used in combination with diamonds and pearls. Moonstones and white topaz also go well with these stones.

The topaz and other yellow stones require study and

actual comparison, with reference to size, color and mounting to be set effectively.

It is impossible to set down any laws or rule regarding the setting and matching of gems. One must give each item such as transparency, brilliancy, shades, etc., separate consideration if he desires the best results. Last but not least, one should consider the mounting. Some one has written that a genuine well cut gem is surely worthy of an original mounting.

Again, the shape has much to do with the artistic effect of setting. In general it will not answer to associate curved surfaced stones with others having curved surfaces, as for example, the carbuncle with the moonstone. Much better would it be to combine a step cut stone with one having a curved surface. Gems having an adamantine luster assort better with those which present less brilliant surface, combining the waxy with the resinous.

Diamond and the jargoon do not improve or bring out each other's qualities, the jargoon and turquoise, as well as the diamond and pearl harmonize, that is the adamantine with the pearly and the resinous with the waxy. Then, too, those stones, like the catseye, do not show well with translucent stones like the chrysoprase and chalcedony, while transparent stones agree well with those which interrupt passage of light by internal reflection. Stones with great "fire" in them should be associated with those more lacking in this quality. Those stones which transmit beams of same color in all directions should be associated with those exhibiting two or more hues, and care therefore should be exercised regarding contrast of tone and color, remembering well the lesson taught us by nature of order of succession of colors in the original rainbow or prismatic spectrum.

THE DIAMOND.

Although not the most valuable of precious stones, the diamond unquestionably exceeds all others in interest, although not of very great rarity, even in faultless specimens of fair size. The diamond has been found in almost all parts of the world as well as in meteorites, showing that this

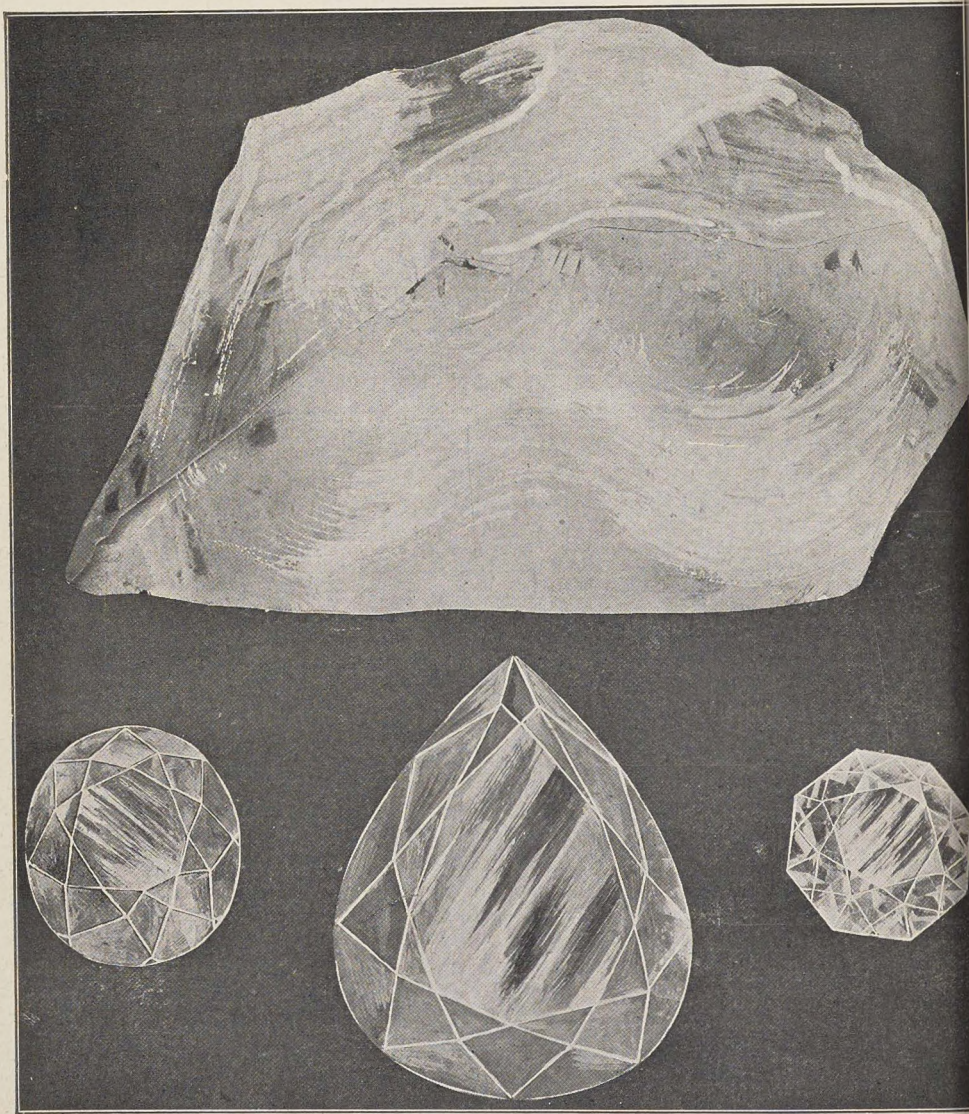
globe does not alone possess this gem. Diamonds, like other stones, have a great variety of range of color, and in addition to colorless gems, so familiar to every one, shades of varying depths of yellow, orange, brown, blue, green, red, pink to gray and black are found.

Some of these colors are of great rarity in diamonds, notably the red, pink, blue and orange, therefore demanding higher prices for fine specimens. The value of a diamond depends, however, upon the degree of its transparency, clearness and purity, the color it possesses and its freedom from flaws. Compared with colorless diamonds, colored specimens exist in quite insignificant numbers, among these, the so-called fancy stones are red, blue, green and yellow. The three most notable colored diamonds are the Hope Blue Diamond, $44\frac{1}{2}$ carats; Russian Red Diamond, 10 carats, and the Dresden Green Diamond, $48\frac{1}{4}$ carats.

Birth-Month Gems.

January—Garnet.
February—Amethyst.
March—Bloodstone.
April—Diamond.
May—Emerald.
June—Pearl.

July—Ruby.
August—Moonstone.
September—Sapphire.
October—Opal.
November—Topaz.
December—Turquoise.



CULLINAN DIAMOND.

The largest known diamond. Found by Mr. Cullinan, whose name it bears, January 27, 1905, and presented to King Edward by the Transvaal Government and the Premier Diamond Mine Company. Weight of rough stone, 3032 carats; weight when cut, 500 to 600 carats; appraised value, \$40,000,000.

Models of the rough and the three finished stones into which it will be cut, will be made by us of rock crystal. Price \$75.00 on mahogany base.

THE WORLD'S FAMOUS DIAMONDS.

1. *PIGOTT DIAMOND*. Brought by Lord Pigott from India to England about 1775, and afterwards disposed of to Ali Pasha, Viceroy of Egypt. All trace of this stone has since been lost. Weight uncut $42\frac{1}{2}$ carats, rose shape.

2. *SANCY DIAMOND*. One of the finest of diamonds. Has been traced back to Charles the Bold who lost it in 1477 at the Battle of Nancy. It came through many private hands to the Huguenot nobleman, Sancy. James II of England procured it in 1688; was later owned by Louis XIV and worn by Louis XV at his coronation. Now owned by a collector who paid \$70,000 for it. Weight uncut $53\frac{1}{2}$ carats, almond shape.

3. *SHAH DIAMOND*. Presented in 1829 to the Czar Nicholas of Russia by the Persian Prince Chosroes. Weight uncut 40 carats, octagonal in shape.

4. *HOPE BLUE DIAMOND*. Extremely rare color in a diamond. Has been known since 1830; formerly in collection of Henry Phillip Hope, who paid about \$90,000 for it. Weight uncut $44\frac{1}{2}$ carats, oval in shape.

5. *PASHA OF EGYPT*. Owned by Viceroy Ebrahim of Egypt who purchased it for about \$140,000. Weight uncut 40 carats. Shape, octagonal.

6. *STAR OF ESTE*. An absolutely flawless diamond. In possession of Archduke Franz Ferdinand of Austrian-Este. Weight 25 carats. Compared with some other stones of twice its size, it appears not sensibly smaller, so perfect are its proportions and so regular in cutting.

7. *STEWART DIAMOND*. Found 1872 in the river diggings, on the Vaal, South Africa. Sold in the rough for \$30,000, and afterwards for \$45,000. Weight $288\frac{3}{8}$ carats in the rough.

8. *KOH-I-NOOR*. One of the most famous of diamonds. According to a Hindu legend worn by one of the heroes of the Mahabharatam 4,000 years ago. In possession of various rajahs and native princes of India. In 1849 confiscated by the East India Company and presented to Queen Victoria. After being exhibited at the Great Exhibition of 1851, it was recut. Its present shape is oval; its

previous form was irregular rosette with numerous facets in Indian cut. Its original weight was 186 carats; its present weight is 106 1-16 carats.

9. *NASSAK DIAMOND*. Derives its name from its long sojourn in the temple to Siva at Nassak, India. In 1818 it passed into the hands of the East India Company. Now in the family of the Duke of Westminster. Is triangular in shape.

10. *GREAT MOGUL*. Largest of Indian diamonds. Weight about 787 carats. Dome shape. Found between 1630 and 1650. Present whereabouts unknown. Believed by some to have been recut and now appears under another name.

11. *FLORENTINE*. Most famous of the yellow diamonds. Said to have been cut for Charles the Bold. Rose shape. After many changes it came into its present resting place, the treasury of the Imperial Palace at Vienna.

12. *KOH-I-NOOR*. Before cutting to present form. See No. 8 of this collection.

13. *DRESDEN*. Most famous green diamond. Since 1743 property of Saxon crown. Octagonal in shape, weight $76\frac{1}{2}$ carats; found in Brazil.

14. *STAR OF SOUTH AFRICA*. First large diamond found in South Africa. Discovered 1869, and sold to the Duchess of Dudley for \$125,000. Cut to shape of drop, $83\frac{1}{2}$ carats.

15. *REGENT OF PITT*. Found in 1701, Southern India. Bought by Duke of Orleans for \$400,000, and became one of the French crown jewels valued at \$2,000,000. Lost in French revolution; afterwards recovered; now property of French nation. Shape of square, 410 carats in rough, $136\frac{3}{4}$ carats cut.

16. *EMPERESS EUGENIE*. Given by Catherine II of Russia to her favorite Potemkin. Afterwards acquired by Napoleon III as wedding gift to Eugenie. Cut oval shape, weight 51 carats.

17. *ORLOFF*. Largest diamond of Russian crown jewels. Set in end of Czar's sceptre. Formerly the eye of an Indian god. Stolen by a soldier; traded to a sea cap-

tain; bought, 1791, for Catherine of Russia for about \$560,000. Oval in shape and weight about $194\frac{1}{2}$ carats.

18. *POLAR STAR*. One of the prized diamonds of the Russian crown. Hexagonal in shape, beautifully brilliant, 40 carats.

19. *STAR OF THE SOUTH*. Famous Brazilian diamond. Discovered 1853; cut in Amsterdam; bought by the Gaikwar of Baroda, India, for \$400,000. Weight in rough $254\frac{1}{2}$ carats, 125 carats cut.

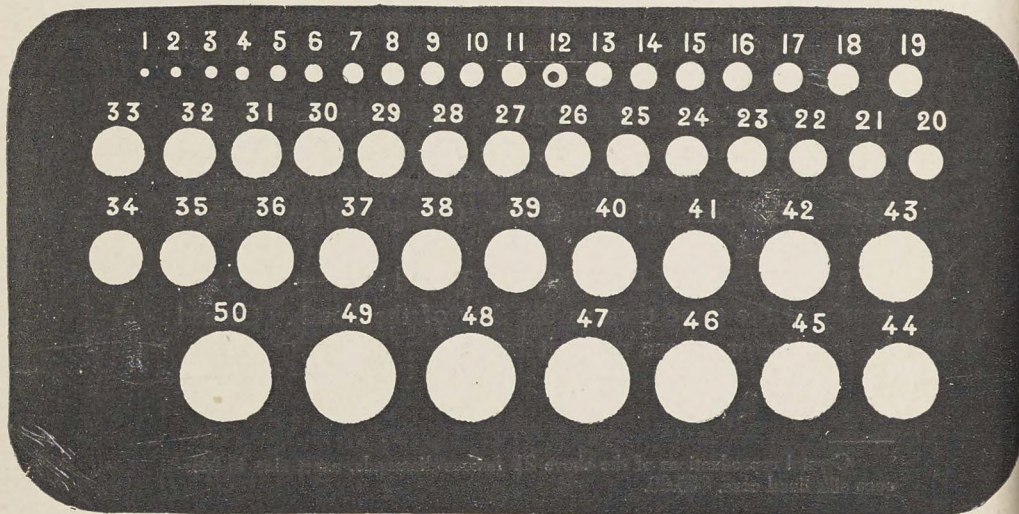
20. *TIFFANY DIAMOND*. One of the finest yellow diamonds. At present time the largest brilliant in the United States. Found in South Africa, and now owned by Tiffany Company, of New York. Orange yellow. Weight $125\frac{1}{2}$ carats.

21. *DRESDEN DIAMOND*. Found at same place and nearly at the same time as the Star of the South. Owned by a collector whose name it bears.

Crystal reproductions of the above 21 famous diamonds, exact size in Morocco silk lined case, \$25.00.

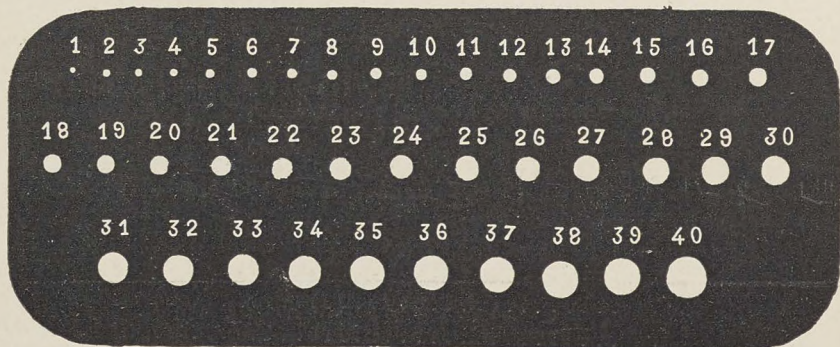
Section II

Semi-Precious Stones, Jobbing Stones (genuine and imitation,) Specialties Special Order Work



Stone Gauge.

Order Doublets, round Garnets, Brilliants and Foilbacks by this gauge. Don't order Pearls, Turquoise and Bohemian Garnets by this gauge.



Pearl and Turquoise Gauge.

Order Pearls, Turquoises and Bohemian Garnets by this gauge. Don't order other stones than the above by this gauge.



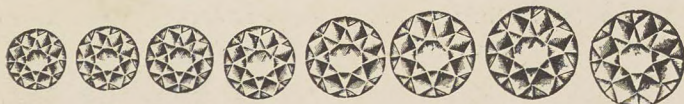
Millimeter Guage.

For all stones except round.

Round Amethysts, Garnets, Imitation Diamonds, Doublets and Imitation Doublets



No. 10 12 14 16 18 20 22 24 26 28 30 32 34



36 38 40 42 44 46 48 50

REAL AMETHYSTS.

Size.	EACH.	Doz.
6 to 8	\$.15	\$1.25
10 to 12 .....	.15	1.50
14 to 18 .....	.20	2.25
20 to 24 .....	.25	2.75
26 to 30 .....	.30	3.00
32 to 34 .....	.35	3.50
36 to 38 .....	.40	4.00

Larger \$1.00 per dwt.

SIBERIAN AMETHYSTS.

Size.	EACH.	Doz.
6 to 10	\$.20	\$1.75
12 to 16 .....	.35	4.00
18 to 20 .....	.45	4.50
22 to 24 .....	.55	5.50
26 to 28 .....	.65	7.50
30 to 32 .....	.80	9.00
34	1.25	12.00

AMETHYST DOUBLETS.

SIZE.	EACH.	DOZ.
1 to 8	\$.10	\$.50
10 to 12 .....	.10	.65
14 to 16 .....	.10	.85
18 to 20 .....	.15	1.00
22 to 24 .....	.15	1.25
26 to 30 .....	.15	1.40
32 to 34 .....	.20	2.00
36 to 38 .....	.30	3.50
40 .....	.40	4.00

REAL TOPAZ.

SIZE.	EACH.	DOZ.
6 to 8	\$.10	\$ 1.00
10 to 14 .....	.15	1.50
16 to 18 .....	.20	2.00
20 to 24 .....	.30	3.00
26 to 30 .....	.40	4.00
32 to 36 .....	.60	6.00
38 to 40 .....	.75	8.00

Round Garnets.

GARNETS.

Cape Rubies; very dark.

SIZE.	EACH.	DOZ.
3 to 6	\$.10	\$.50
8 to 10 .....	.10	.70
12 to 16 .....	.10	1.00
18 to 20 .....	.20	1.75
22 to 24 .....	.30	2.75

GARNETS.

Carbuncle Tops.

SIZE.	EACH.	DOZ.
3 to 6	\$.10	\$.35
8 to 10 .....	.10	.45
12 to 14 .....	.10	.75
16 to 20 .....	.15	1.50
22 to 26 .....	.30	3.00
28 to 30 .....	.40	4.25

REAL GARNETS.

Brilliant Cut.

Size.	EACH.	Doz.
3 to 8	\$.10	\$.50
10 to 14 .....	.10	.70
16 to 20 .....	.10	1.00
22 to 24 .....	.15	1.35
26 to 28 .....	.20	1.75
30 to 32 .....	.25	2.50
34 to 36 .....	.35	3.50
38 to 40 .....	.45	4.75

GARNETS.

Rose Cut.

Size.	EACH.	Doz.
3 to 8	\$.10	\$.50
10 to 14 .....	.10	.75
16 to 20 .....	.15	1.50
22 to 24 .....	.25	2.75
26 to 30 .....	.40	4.00

ALMANDINE GARNETS.

Size.	EACH.	Doz.
6 to 10	\$.10	\$.75
12 to 14 .....	.10	1.00
16 to 18 .....	.15	1.45
20 to 24 .....	.20	2.00
26 to 28 .....	.30	2.85
30 .....	.40	3.75
32 .....	.50	5.00
34 .....	.60	6.25
36 .....	.70	7.50
38 .....	.85	9.00
40	1.00	10.75

GARNETS.

Dentelles, Flat Top; Facetted Bottom.

Size.	EACH.	Doz.
10 to 14	\$.10	\$.75
16 to 18 .....	.15	1.15
20 .....	.20	1.75
22 to 26 .....	.30	3.50
28 to 30 .....	.50	4.75

SMALL OPALS.

SIZE.	FINE QUALITY.		FAIR QUALITY.		COMMON QUAL.	
	EACH.	DOZ.	EACH.	DOZ.	EACH.	DOZ.
3 to 7 ...	\$.20	\$2.00	\$.15	\$1.75	\$.10	\$1.00
6 to 10 ...	.25	2.25	.20	2.00	.15	1.25
11 to 12 ...	.30	2.75	.25	2.50	.20	1.75
13 to 14 ...	.35	3.25	.30	2.75	.20	2.00

Imitation Diamonds.

FIRST QUALITY BRILLIANTS.

Diamond Cut.

SIZE.	EACH.	DOZ.
1 to 8	\$.10	\$.50
10 to 16 .....	.10	.75
18 to 20 .....	.10	1.00
22 to 24 .....	.15	1.25
26 to 30 .....	.15	1.50
32 to 36 .....	.20	2.00
38 to 40 .....	.25	2.50
42 to 44 .....	.30	3.00
46 to 48 .....	.40	4.25
50 .....	.50	6.00

Twentieth Century, Forty Facets.

SIZE.	EACH.	DOZ.
16 to 20	\$.20	\$1.65
22 to 26 .....	.25	2.00
28 to 30 .....	.25	2.25
32 to 34 .....	.30	2.50
36 to 40 .....	.30	3.00
42 to 44 .....	.35	3.65
46 to 48 .....	.45	4.35

GOLCONDA GEMS.

Canary Color.

SIZE.	EACH.	DOZ.
16 to 20	\$.10	\$.75
22 to 28 .....	.10	.75
30 to 34 .....	.15	1.00
36 to 38 .....	.20	1.40
40 to 44 .....	.25	2.25

Blue Tinted, Aquamarine Colors.

SIZE.	EACH.	DOZ.
1 to 16	\$.10	\$.50
18 to 24 .....	.10	.65
26 to 34 .....	.10	.80
36 to 40 .....	.15	1.00

SECOND QUALITY BRILLIANTS.

Diamond Cut.

SIZE.	EACH.	DOZ.
1 to 8	\$.10	\$.30
10 to 16 .....	.10	.35
18 to 28 .....	.10	.45
30 to 32 .....	.10	.55
34 to 36 .....	.10	.85
38 to 40 .....	.10	1.00
42 to 44 .....	.15	1.50
46 to 48 .....	.25	2.50
50 .....	.30	3.50

Foil Backs. Platinum Tips.

SIZE.	EACH.	DOZ.
1 to 10	\$.10	\$.75
12 to 16 .....	.10	1.00
18 to 26 .....	.15	1.25
28 to 34 .....	.15	1.50
36 to 38 .....	.20	1.75
40 .....	.25	2.00

First Quality Foil Backs.

SIZE.	EACH.	DOZ.
1 to 10	\$.10	\$.40
12 to 16 .....	.10	.45
18 to 24 .....	.10	.50
26 to 30 .....	.10	.60
32 to 34 .....	.10	.85
36 to 38 .....	.15	1.25
40 .....	.15	1.50

Second Quality Foil Backs.

SIZE.	EACH.	Doz.
1 to 10	\$.10	\$.15
12 to 16 .....	.10	.20
18 to 24 .....	.10	.25
26 to 30 .....	.10	.35
32 to 34 .....	.10	.45
36 to 38 .....	.10	.60
40 .....	.10	.75

FIRST QUALITY REAL DOUBLET.

Diamond Cut. All colors.

SIZE.	EACH.	Doz.
1 to 10	\$.10	\$.60
11 to 15 .....	.10	.75
16 to 20 .....	.10	1.00
21 to 25 .....	.15	1.25
26 to 30 .....	.15	1.50
31 to 35 .....	.20	2.50
36 to 40 .....	.35	3.75
40 to 42 .....	.50	5.00
44 to 46 .....	.65	7.25
48 to 50 .....	.85	9.00

SECOND QUALITY REAL DOUBLET.

Diamond Cut. All colors.

SIZE.	EACH.	Doz.
1 to 10	\$.10	\$.30
11 to 15 .....	.10	.45
16 to 20 .....	.10	.60
21 to 25 .....	.10	.90
26 to 30 .....	.15	1.25
31 to 35 .....	.20	2.25
36 to 40 .....	.25	2.75
41 to 42 .....	.35	4.00
44 to 46 .....	.50	5.50
48 to 50 .....	.65	7.00

GENUINE DOUBLETS.

Size.	EACH.	Doz.
1 to 10	\$.10	\$.75
11 to 15 .....	.10	.85
16 to 20 .....	.15	1.00
21 to 25 .....	.15	1.25
26 to 30 .....	.20	1.50
31 to 35 .....	.25	2.00
36 to 40 .....	.30	2.75
40 to 42 .....	.35	3.25
44 to 46 .....	.45	4.25

AMETHYST TOPAZ DOUBLETS.

Size.	EACH.	Doz.
6 to 8	\$.10	\$.40
10 to 14 .....	.10	.50
16 to 18 .....	.10	.75
20 to 26 .....	.15	1.15
28 to 30 .....	.20	1.75
32 to 36 .....	.25	2.50
38 to 40 .....	.35	3.50

REAL OLIVINE DOUBLETS.

Size.	EACH.	Doz.
1 to 6	\$.10	\$.35
8 to 10 .....	.10	.40
12 to 14 .....	.10	.75
16 to 20 .....	.10	1.00
22 to 24 .....	.15	1.25
26 to 30 .....	.15	1.50
32 to 34 .....	.25	2.75
34 to 36 .....	.30	3.00
38 to 40 .....	.35	3.50

FIRST QUALITY REAL DOUBLETS.

Rose Cut. All colors.

Size.	EACH.	Doz.
1 to 10	\$.10	\$.75
12 to 16 .....	.10	1.00
18 to 20 .....	.15	1.25
22 to 24 .....	.15	1.50
26 to 30 .....	.20	1.85
32 to 34 .....	.30	2.75

IMITATION DOUBLETS.

First Quality. All colors.

SIZE.	EACH.	DOZ.
1 to 18	\$.10	\$.25
20 to 22 .....	.10	.30
24 to 34 .....	.10	.35
36 to 38 .....	.10	.40
40 to 42 .....	.10	.50
44 to 50 .....	.10	.75

IMITATION DOUBLETS.

Second Quality. All colors.

SIZE.	EACH.	DOZ.
1 to 10	\$.10	\$.15
11 to 15 .....	.10	.20
16 to 20 .....	.10	.20
21 to 35 .....	.10	.30
36 to 40 .....	.10	.40
42 to 46 .....	.10	.45
46 to 50 .....	.10	.60

IMITATION DOUBLETS.

Flat Bottom. Foil Backs.

SIZE.	EACH.	DOZ.
1 to 18	\$.10	\$.25
20 to 24 .....	.10	.35
26 to 28 .....	.10	.40
30 to 34 .....	.10	.50

IMITATION TOPAZ.

SIZE.	EACH.	DOZ.
6 to 12	\$.10	\$.25
14 to 20 .....	.10	.35
22 to 32 .....	.10	.40
34 to 40 .....	.10	.50

IMITATION OLIVINE DOUBLETS.

Sizes 6 to 20, per dozen 35c.

ROSE CUT BRILLIANTS.

Flat Bottom. All colors.

SIZE.	EACH.	DOZ.
1 to 16	\$.10	\$.25
18 to 20 .....	.10	.30
22 to 24 .....	.10	.35
26 to 28 .....	.10	.40
30 to 32 .....	.10	.50

CRYSTALLINE EMERALDS.

Real Top, Glass Bottom.

SIZE.	EACH.	DOZ.
8 to 10	\$.30	\$3.00
12 to 14 .....	.35	3.50
16 to 18 .....	.45	4.50
20 to 22 .....	.50	5.25
24 .....	.65	6.50
26 .....	.90	9.00

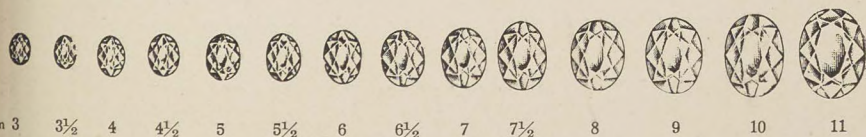
IMITATION OPALS.

(Round and Elliptic.)

SIZE.	EACH.	DOZ.
2 to 3½m	\$.10	\$.90
3½ to 5 m .....	.15	1.50
5 to 10 m .....	.20	2.00

All sizes Imitation Opals, common quality .25

Oval Stones.



GENUINE AMETHYSTS.

SIZE.	EACH.	DOZ.
3½m	\$.15	\$ 1.00
4 m .....	.15	1.50
4½m .....	.15	1.75
5 m .....	.15	1.75
5½m .....	.15	1.75

GENUINE AMETHYSTS—Continued		EACH.	DOZ.
6 m	.....	.15	1.75
6½m	.....	.20	2.00
7 m	.....	.20	2.25
7½m	.....	.25	2.75
8 m	.....	.25	2.75
8½m	.....	.30	3.00
9 m	.....	.30	3.25
10 m	.....	.40	4.00
11 m	.....	.50	5.00
12 m	.....	.65	7.00
13 m	.....	.75	8.00
14 m	.....	.95	9.00
16 m	.....	1.10	12.00
18 m	.....	1.50	16.50
20 m	.....	1.75	19.50

BRAZILIAN AMETHYSTS.

SIZE.	EACH.	DOZ.
4m	\$.10	\$1.00
5m	.10	1.25
6m	.15	1.50
7m	.20	2.00
8m	.25	2.75
9m	.30	3.50

10m and up from \$1.50 to \$2.50 dwt.

GENUINE TOPAZ.

SIZE.	EACH.
5m	\$.20
6m	.25
7m	.30
8m	.35
9m	.40
10m	.50
11m	.55
12m	.60
13m	.75
14m	1.00
16m	1.15
18m	1.65
20m	2.25

GENUINE GARNETS.

Size.	Doz.
3 to 4 m	\$.90
4½ to 5½m	1.25
6 to 7 m	1.75
7½ to 8½m	2.65
9 m	3.00
10 m	4.25
11 m	5.25
12 m	7.00

ALMANDINES.

Size.	EACH.	Doz.
3 m	\$.10	\$1.00
3½m .....	.10	1.00
4 m .....	.15	1.25
4½m .....	.15	1.50
5 m .....	.15	1.65
5½m .....	.20	2.00
6 m .....	.20	2.25
6½m .....	.25	2.75
7 m .....	.30	3.00
7½m .....	.35	3.50
8 m .....	.45	4.50
8½m .....	.50	5.00
9 m .....	.65	6.75
10 m .....	.85	9.00
11 m	1.25	12.00
12 m	1.85	20.00

GENUINE CARBUNCLE GARNETS.

Size.	EACH.	Doz.
7 to 8m	\$.25	\$2.50
9m .....	.30	3.50
10m .....	.50	5.50
11m .....	.65	
12m .....	.85	
13m	1.00	
14m	1.50	
16m	2.25	
18m	4.50	

MOON STONES.

SIZE.	EACH.	DOZ.
3 to 3½m.....	\$.10	\$1.00
4 to 4½m.....	.15	1.25
5 to 5½m.....	.15	1.50
6m.....	.25	2.75
6½ to 7 m.....	.30	3.00
8 to 9 m.....	.45	4.50

OVAL OPALS.

SIZE.	FIRST QUAL.	SECOND QUAL.	THIRD QUAL.
12 m.....	\$9.00	\$6.50	\$4.50
11½m.....	7.00	6.00	4.00
11 m.....	5.00	4.25	3.00
10½m.....	4.50	4.00	2.75
10 m.....	3.75	3.25	2.50
9½m.....	3.00	2.50	1.75
9 m.....	2.75	2.00	1.50
8½m.....	2.50	1.75	1.25
8 m.....	2.00	1.25	1.00
7½m.....	1.75	.75	.65
7 m.....	.60	.50	.40
6½m.....	.60	.50	.40
6 m.....	.45	.40	.30
5½m.....	.35	.30	.20
5 m.....	.30	.25	.20
4½m.....	.30	.25	.15
4 m.....	.25	.20	.15

GENUINE DOUBLET.

SIZE.	EACH.	DOZ.
3 m.....	\$.10	\$.75
3½m.....	.10	.85
4 m.....	.10	1.00
4½m.....	.15	1.15
5 m.....	.15	1.25
5½m.....	.15	1.25
6 m.....	.15	1.40
6½m.....	.15	1.50
7 m.....	.15	1.50

SIZE	GENUINE DOUBLETS—Continued	EACH.	DOZ.
7 $\frac{1}{2}$ m20	1.75
8 m25	2.15
8 $\frac{1}{2}$ m25	2.25
9 m25	2.75
10 m35	3.50
12 m50	5.50
14 m65	7.50

AMETHYST DOUBLETS.

SIZE.		EACH.	DOZ.
3	to 4 m	\$.15	\$1.25
4 $\frac{1}{2}$	to 6 $\frac{1}{2}$ m	.20	1.75
7	to 8 m	.25	2.50
8 $\frac{1}{2}$	to 9 m	.30	3.00
9 $\frac{1}{2}$	to 14 m	.45	4.50

TOPAZ DOUBLETS.

SIZE.		EACH.	DOZ.
3 to 5m	.....	\$ .15	\$1.00
6m	.....	.20	1.25
7m	.....	.25	1.75
8m	.....	.25	2.00
9m	.....	.30	2.75
10m	.....	.40	3.25
11m	.....	.45	4.25
12m	.....	.50	5.50

IMITATION DOUBLETS.

SIZE.		EACH.	DOZ.
3	to 4 $\frac{1}{2}$ m	\$.10	\$.35
4 $\frac{1}{2}$	to 5 $\frac{1}{2}$ m	.10	.45
6	to 6 $\frac{1}{2}$ m	.10	.50
7	to 8 m	.10	.60
8 $\frac{1}{2}$	to 10 m	.10	.70
12	to 16 m	.10	.75
18	to 20 m	.10	.85

IMITATION CARBUNCLE GARNETS.

	EACH.	DOZ.
7 to 12m	\$.10	\$1.00
13 to 16m	.10	1.25
18m	.15	1.50
20m	.20	1.75

IMITATION AMETHYSTS.

SIZE.		EACH.	DOZ.
3	to 4m	\$.10	\$.40
4 $\frac{1}{2}$	to 7m	.10	.50
7 $\frac{1}{2}$	to 8m	.10	.65
8 $\frac{1}{2}$	to 9m	.10	.70
10	to 12m	.10	.75
14	to 20m	.15	1.25

IMITATION TOPAZ.

SIZE.		EACH.	DOZ.
3	to 4 m	\$.10	\$.40
5	to 6 $\frac{1}{2}$ m	.10	.50
7	to 8 m	.10	.65
8 $\frac{1}{2}$	to 9 m	.10	.70
10	to 12 m	.10	.75
14	to 20 m	.15	1.25

IMITATION GARNETS.

SIZE.		EACH.	DOZ.
3	to 4 m	\$.10	\$.35
4 $\frac{1}{2}$	to 5 $\frac{1}{2}$ m	.10	.45
6	to 6 $\frac{1}{2}$ m	.10	.50
7	to 8 m	.10	.60
8 $\frac{1}{2}$	to 10 m	.10	.70
12	to 16 m	.10	.75
18	to 20 m	.10	.85

IMITATION TURQUOISE.

SIZE.		EACH.	DOZ.
3	to 3 $\frac{1}{2}$ m	\$.10	\$.25
4	to 5 m	.10	.30
5 $\frac{1}{2}$	to 6 $\frac{1}{2}$ m	.10	.30
7	to 8 m	.10	.75
9	to 14 m	.10	.75
16	to 18 m	.20	2.00
20	to 22 m	.30	3.00

Cushion and Narrow Cushion Stones



mm 5 5½ 6 6½ 7 8 9 10 12 14

GENUINE AMETHYSTS.

SIZE.	EACH.
5m	\$.15
6m .....	.20
7m .....	.25
8m .....	.30
9m .....	.35
10m .....	.35
11m .....	.45
12m .....	.55
13m .....	.75
14m .....	.75
16m	1.25
18m	1.50
20m	1.75

GENUINE TOPAZ.

SIZE.	EACH.
3 to 5m	\$.20
6 m .....	.25
6½m .....	.30
7 m .....	.30
7½m .....	.35
8 m .....	.35
8½m .....	.40
9 m .....	.40
10 m .....	.50
11 m .....	.55
12 m .....	.60
13 m .....	.75
14 m	1.00
16 m	1.15
18 m	1.65
20 m	2.25

GENUINE GARNETS.

SIZE.	EACH.	DOZ.
4m	\$.15	\$1.50
5m .....	.15	1.75
6x3m.....	.20	2.00
6x4m.....	.20	2.00
7x4m.....	.25	2.50
7x5m.....	.25	3.00
8x5m.....	.35	4.00
8x6m.....	.45	4.50
9x5m.....	.45	4.50
9x6m.....	.45	6.00

GENUINE GARNETS.

SIZE.	EACH.
10m	\$.75
11m .....	.85
12m .....	.90
13m	1.00
14m	1.25

GENUINE DOUBLET.

SIZE.	All colors.	EACH.	DOZ.
5m		\$.15	\$1.25
6m .....		.25	2.00
7m .....		.30	2.50
8m .....		.35	3.00
9m .....		.40	3.60
10m .....		.50	4.25
11m .....		.60	5.25
12m .....		.75	6.50
13m .....		.75	8.50
14m		1.00	9.00

IMITATION DOUBLET.

SIZE.	All colors.	EACH.	DOZ.
5 to 10m.....		\$.10	\$.50
12 to 16m .....		.10	.75

IMITATION GARNETS.

SIZE.	EACH.	DOZ.
5 to 10	\$.10	\$.75
12 to 18 .....	.10	1.00

IMITATION AMETHYSTS.

SIZE.	EACH.	DOZ.
5 to 6m	\$.10	\$.45
7 to 11m .....	.10	.50
12 to 14m .....	.10	.75
16 to 20m .....	.10	1.00

Narrow Cushion Stones.

GENUINE AMETHYSTS.

SIZE.	EACH.	
5 to 6m	\$.15	
7 to 8m .....	.20	
9m .....	.25	
10m .....	.30	
11m .....	.40	
12m .....	.50	
13m .....	.70	
14m .....	.85	
16m	1.00	
18m	1.40	
20m	1.50	

GENUINE GARNETS.

SIZE.	EACH.	DOZ.
5 to 7m	\$.20	\$2.00
8m .....	.30	3.00
9m .....	.45	5.00
10m .....	.50	5.50
11m .....	.65	7.00
12m .....	.75	8.50
13m	1.00	9.50
14m	1.00	10.00

IMITATION GARNETS.

SIZE.	EACH.	DOZ.
5 to 6m	\$.10	\$.45
7 to 11m .....	.10	.50
12 to 14m .....	.10	.75
16 to 20m .....	.10	1.00

Imitation Amethysts same price as Imitation Garnets.

DOUBLETS.

Ruby. Emerald and Sapphire.

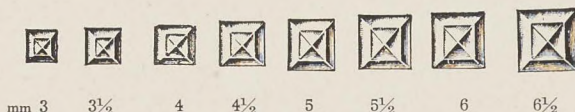
SIZE.	EACH.
4 to 5m	\$.15
6 to 7m .....	.25
8m .....	.35
9m .....	.50
10m .....	.60
11m .....	.75
12m .....	.75
13m	1.00
14m	1.00

IMITATION DOUBLETS.

Ruby, Emerald and Sapphire.

SIZE.	EACH.	DOZ.
4 to 6m	\$.10	\$.45
7 to 10m .....	.10	.50
11 to 15m .....	.10	.75
16 to 18m .....	.10	1.00

Square Stones.



GENUINE SQUARE GARNETS.

Flat Back.

SIZE.	EACH
1 to 1¾m	\$.25
2 to 2½m .....	.35
2¾ to 3½m .....	.60

GENUINE SQUARE TURQUOISE.

SIZE.	EACH.
1 to 1½m	\$.30
1¾m .....	.45
2 m .....	.60
2¼ to 2½m .....	.85
2¾ to 3 m	1.00

GARNETS.

Table Cut Top.

SIZE.	EACH.	DOZ.
1½ to 2 m	\$.10	\$.85
2½ to 3 m .....	.10	1.00
3½ to 4½m .....	.15	1.25
5 to 6 m .....	.25	2.25
6½ to 7 m .....	.35	4.00

GARNETS.

Rose Cut Top.

SIZE.	EACH.	DOZ.
1½ to 2½m	\$.25	\$2.50
3 to 4½m .....	.30	3.00
5 to 6 m .....	.35	3.50
6½m .....	.40	4.00
7 m .....	.45	5.00

CHRYSTALLINE OR FRENCH EMERALDS

With or without flaws. Prices same
as Round Stones, page 30

DOUBLETES.

Genuine.

SIZE.	EACH.	DOZ.
1½ to 3½m	\$.10	\$1.00
4 to 4½m .....	.15	1.65
5 to 5½m .....	.20	2.25
6 to 7 m .....	.30	3.25

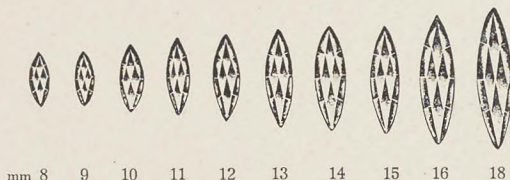
Imitation.

SIZE.	EACH.	DOZ.
1½ to 3½m	\$.10	\$.40
4 to 4½m .....	.10	.45
5 to 5½m .....	.10	.50
6 to 7 m .....	.10	.60

IMITATION SQUARE TURQUOISE.

All sizes 15c. per dozen.

Navette-Shaped Garnets, Doublets, Moon Stones and Turquoise.



GENUINE GARNETS.

SIZE.	EACH.	DOZ.
5 to 6½m.....	\$.25	\$2.75
7 to 7½m.....	.30	3.00
8 to 8½m.....	.35	3.50
9 to 9½m.....	.40	4.00
10 m.....	.45	5.00
11 m.....	.50	5.50
12 m.....	.50	6.00

GENUINE MOON STONES.

SIZE.	EACH.	DOZ.
5 to 5½m.....	\$.15	\$1.50
6 to 6½m.....	.20	1.75
7 to 7½m.....	.20	2.00
8 to 8½m.....	.25	2.25
9 to 9½m.....	.30	3.00
10 m.....	.35	3.75
11 m.....	.40	4.00
12 m.....	.45	4.50

GENUINE DOUBLET.

SIZE.	EACH.	DOZ.
5 to 5½m.....	\$.15	\$1.25
6 m.....	.15	1.50
7 to 7½m.....	.20	2.00
8 to 8½m.....	.20	2.25
9 to 9½m.....	.25	2.75
10 m.....	.30	3.00
11 m.....	.35	3.50
12 m.....	.40	4.50

IMITATION DOUBLET.

All sizes, each 10c.; per dozen 75c.

ROSALINE.

SIZE.	EACH.	DOZ.
6m	\$.15	\$1.25
7 to 8m .....	.15	1.50
9m .....	.20	1.75
10m .....	.20	2.00

FRENCH OPALS.

(Navette.)

SIZE.	EACH.	DOZ.
10m	\$.20	\$2.00
9m .....	.20	2.00
8m .....	.20	1.75
7m .....	.15	1.75
6m .....	.15	1.50

NAVETTE-SHAPED IMITATION FRENCH
OPALS.

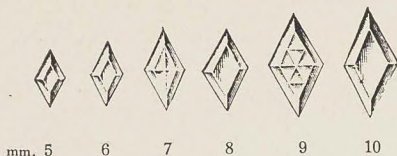
SIZE.	EACH.	DOZ.
5 to 6m	\$.10	\$.60
7 to 9m .....	.10	.80
10 to 11m .....	.15	1.25
12 to 14m .....	.15	1.50
16m .....	.20	2.00
18m .....	.30	3.00

NAVETTE-SHAPED TURQUOISE AND ROSA-
LINE AND FRENCH IMITATION OPALS.
IMITATION TURQUOISE.

All sizes.

SIZE.	EACH.	DOZ.
5 to 12m	\$.10	\$.35

Diamond Shapes.



GENUINE GARNETS.

SIZE.		EACH.	DOZ.
4½ to 5	m	\$.15	\$1.50
5½ to 6	m .....	.20	1.75
6½ to 7	m .....	.25	2.50
7½m	.....	.25	3.00
8 to 8½m	.....	.30	3.50
9 to 9½m	.....	.35	4.00
10 m	.....	.45	4.50
10½m	.....	.50	5.50
11 m	.....	.60	6.75

GENUINE DOUBLET.

All colors.

SIZE.		EACH.	DOZ.
5 to 6	m	\$.20	\$2.00
6½ to 7½m	.....	.25	2.75
8 to 9	m .....	.35	3.50
9½ to 10	m .....	.40	4.50
10½m	.....	.75	9.00

IMITATION DOUBLET.

SIZE.		EACH.	DOZ.
5 to 10m	.....	\$ .10	\$.75

Square Antique Shapes.



All Stones same as Ovals in price.

Heart-Shaped Doublets, Garnets and Amethysts.

GENUINE AMETHYSTS.

SIZE.	EACH.	DOZ.
4m	\$.25	\$2.50
5m .....	.30	3.50
6m .....	.40	4.25
7m .....	.65	7.50
8m .....	.80	9.00

GENUINE GARNETS.

SIZE.	EACH.	DOZ.
4 to 5m	\$.25	\$2.50
6m .....	.30	3.00
7m .....	.35	3.50
8m .....	.45	4.50

HEART-SHAPED MOON STONES.

SIZE.	EACH.	DOZ.
4 to 5m	\$.25	\$3.00
6m .....	.30	3.50
7m .....	.40	4.50
8m .....	.75	9.00

HEART-SHAPED TURQUOISE.

SIZE.	EACH.	DOZ.
5 to 6m	\$.25	\$3.00
7 to 8m .....	.30	3.25

ROSALINE HEARTS.

SIZE.	EACH.	DOZ.
4 to 5m	\$.25	\$3.00
6 to 7m .....	.35	4.00
8m .....	.45	5.25

GENUINE DOUBLET.

SIZE.	EACH.	DOZ.
3 to 4m	\$.30	\$3.00
4½ to 5m .....	.35	3.50
5½ to 6m .....	.40	4.50
7m .....	.45	5.00
8m .....	.50	5.75

Pear-Shaped Bohemian Flat Back Garnets and Doublets.

GARNETS.

SIZE.	EACH.	DOZ.
3 to 4m	\$.10	\$.75
4½m .....	.10	.85
5½m .....	.10	1.00
6 m .....	.20	1.75
6½ to 7m .....	.20	2.00

GENUINE GARNETS.

SIZE.	EACH.	DOZ.
3½ to 4½m	\$.10	\$1.10
5 to 5½m .....	.15	1.25
6 to 6½m .....	.25	2.25
7 to 7½m .....	.30	3.00
8 m .....	.35	3.75
8½m .....	.40	4.50
9 m .....	.50	5.50
9½m .....	.50	6.00
10m .....	.60	6.50

GENUINE DOUBLET.

All colors.

SIZE.	EACH.	DOZ.
3 to 3½m	\$.25	\$2.75
4 to 4½m .....	.25	2.75
5 m .....	.30	3.00
6 to 7 m .....	.35	4.00
7½ to 8½m .....	.45	5.00
9 to 9½m .....	.55	6.50
10m .....	.75	8.00

Crescent-Shaped Moonstones, Garnets and Doublets.

MOON STONES.

SIZE.	EACH.	DOZ.
4 to 5½m	\$.20	\$2.50
6 to 6½m .....	.30	3.50
7 to 7½m .....	.35	4.00
8 to 9m .....	.40	4.25
10m .....	.45	4.50

GARNETS.

SIZE.	EACH.	DOZ.
4 to 5m	\$.30	\$3.00
6m .....	.35	3.50
7m .....	.40	4.00
8m .....	.45	4.50
9m .....	.50	5.50
10m .....	.55	6.00

DOUBLETS—All colors.

SIZE.	EACH.	DOZ.
4 to 5m	\$.30	\$3.00
6m .....	.35	3.75
7m .....	.40	4.00
8m .....	.45	4.50
9m .....	.50	5.75
10m .....	.55	6.50

KEYSTONE GENUINE TURQUOISE.

SIZE.	EACH.	DOZ.
1½m	\$.10	\$.35
1¾m .....	.10	.55
2 m .....	.10	1.00
2¼m .....	.15	1.50
2½m .....	.20	1.75
2¾m .....	.25	2.50
3 m .....	.35	3.50
3½m .....	.35	3.75

KEYSTONE IMITATION TURQUOISE.

Per dozen 25c.

KEYSTONE GENUINE GARNETS.

SIZE.	EACH.
1½ to 2¼m	\$.50
2½ to 3 m .....	.60
3½m .....	.70

CLOVERLEAF-SHAPED DOUBLETS.

All colors.

SIZE.	EACH.	DOZ.
4	\$.35	\$4.00
5 .....	.40	4.25
6 .....	.50	5.50
7 .....	.60	6.50

TRIANGLE-SHAPED DOUBLETS.

All colors.

SIZE.	EACH.	DOZ.
3 to 3½m	\$.25	\$2.50
4 m .....	.35	3.50
4½ to 5m .....	.40	4.00
5½ to 6m .....	.50	5.50

QUADRANT OR FAN-SHAPED DOUBLETS.

All colors.

SIZE.	EACH.	DOZ.
4½ to 5m	\$.20	\$1.75
5m .....	.20	2.50
6 to 6½m .....	.30	3.00
7m .....	.35	3.25

Coral Balls, Buttons, Beads and Drops.

GENUINE CORAL BALLS.

SIZE.	EACH.	DOZ.
3 to 5m	\$.15	\$1.50
5½ to 6m .....	.25	3.00
6½ to 7m .....	.50	5.50
7½ to 8m	1.00	11.00

GENUINE CORAL BUTTONS.

SIZE.	EACH.	DOZ.
3 to 6 m	\$.25	\$2.50
6½ to 7½m .....	.50	4.50
7½ to 8 m	1.00	10.00

GENUINE CORAL BEADS.

Size.	EACH.	Doz.
3 to 6m	\$.20	\$1.75
6½ to 7m .....	.35	4.00
7½ to 8m .....	.75	8.00

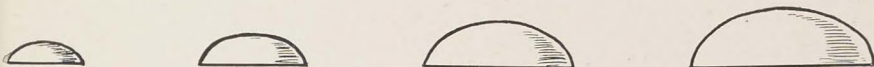
CORAL BUTTONS, HALF PIERCED.

Each 75c. to \$1.75.

IMITATION CORAL ROSES, BALLS AND BEADS.

Dozen \$1.00.

Balls and Half Balls.



MOON STONE BALLS.

Size.	EACH.	Doz.
1 to 3m	\$.10	\$.75
3½ to 4m .....	.15	1.25
4½ to 5m .....	.25	2.75
5½ to 6m .....	.35	4.00
6½m .....	.45	5.00

MOON STONE BALLS. HALF ROUND.

Size.	EACH.	Doz.
1 to 3m	\$.10	\$.75
3½m .....	.10	.85
4 m .....	.15	1.25
4½m .....	.20	1.75
5 m .....	.20	2.00
5½m .....	.25	2.50
6 m .....	.25	2.75
6½m .....	.30	3.00
7 m .....	.35	3.50

HEMATITE BALLS.

Size.	EACH.	Doz.
3 m	\$.10	\$1.00
3½m .....	.10	1.10
4 m .....	.15	1.25
4½m .....	.15	1.25
5 m .....	.15	1.25
5½m .....	.15	1.25
6 m .....	.15	1.25
6½m .....	.15	1.25
7 to 8m.....	.20	1.50

GENUINE HALF ROUND TURQUOISE.

Size.	EACH.
5	\$.20
6 .....	.25
7 .....	.30
8 .....	.30
9 .....	.35
10 .....	.40
11 .....	.50
12 .....	.55
13 .....	.60
14 .....	.70
15 .....	.75
16 .....	.85
17 .....	.95
18	1.10
19	1.25
20	1.55

ROSALINE HALF BALLS.

Size.	EACH.	Doz.
1 to 7	\$.10	\$.75
8 to 10 .....	.10	.95
11 to 13 .....	.10	1.00
14 to 16 .....	.15	1.25
17 to 20 .....	.20	1.50
21 to 22 .....	.20	1.70

TIGER EYES $\frac{1}{2}$ R.

SIZE.	EACH.
3 to $3\frac{1}{2}$ m	\$.10
4 to $4\frac{1}{2}$ m .....	.15
5 to $7\frac{1}{2}$ m .....	.20
8m .....	.25

RED SARDONYX BALLS.

SIZE.	EACH.
3 to $4\frac{1}{2}$ m	\$.20
5 to $6\frac{1}{2}$ m .....	.25
7 to 8 m .....	.35

CAT'S EYES.

SIZE.	EACH.
3 to $3\frac{1}{2}$ m	\$.35
4 to 5 m .....	.40
$5\frac{1}{2}$ to $6\frac{1}{2}$ m .....	.50
7 to 8 m .....	.60

GARNET BALLS.

SIZE.	EACH.
3 to $4\frac{1}{2}$ m	\$.25
5 to 6 m .....	.30
$6\frac{1}{2}$ to $7\frac{1}{2}$ m .....	.40
8m .....	.65

BLOOD STONE CARBS.

Half Round.

SIZE.	EACH.
$3\frac{1}{2}$ to 4 m	\$.15
$4\frac{1}{2}$ to 5 m .....	.20
$5\frac{1}{2}$ to $6\frac{1}{2}$ m .....	.25
7m .....	.35
8m .....	.40
9m .....	.50

GARNET, HALF ROUND CARBUNCLE.

SIZE.	EACH.
3 to 5m	\$.15
$5\frac{1}{2}$ to 6m .....	.25
$6\frac{1}{2}$ to 7m .....	.35
$7\frac{1}{2}$ to 8m .....	.50

MOSS AGATE.

SIZE.	EACH.
3 to 5 m	\$.15
5 $\frac{1}{2}$ to 6 $\frac{1}{2}$ m .....	.20
7 to 8 m .....	.50

IMITATION.

SIZE.	EACH.
3 to 5 m	\$.50
5 $\frac{1}{2}$ to 6 $\frac{1}{2}$ m .....	.75
7 to 8 m	1.00

ROSALINE BALLS.

SIZE.	EACH.	DOZ.
1 $\frac{3}{4}$ to 2 $\frac{1}{2}$ m	\$.15	\$1.25
3 to 3 $\frac{3}{4}$ m .....	.20	2.00
4 to 4 $\frac{1}{4}$ m .....	.25	2.35
5 to 5 $\frac{1}{2}$ m .....	.35	3.25
5 $\frac{3}{4}$ to 6 $\frac{1}{2}$ m .....	.40	4.00

IMITATION HALF ROUND TURQUOISE.

	EACH.	DOZ.
All sizes	\$.10	\$1.00

IMITATION TURQUOISE BALLS.

SIZE.	EACH.	DOZ.
3 to 5 $\frac{1}{2}$ m	\$.10	\$.30
6 to 8 m .....	.10	.45

BLOOD STONE BALLS.

SIZE.	EACH.
3 to 5 $\frac{1}{2}$ m	\$.15
6 to 8 m .....	.25

IMITATION HALF PEARLS.

Hard—"Perfection." All Sizes.

Per doz.	\$.10
Per 100 .....	.40
Per 1000	1.50

IMITATION ORIENTAL WHOLE PEARLS ON WIRE.

SIZE.	EACH.
5 to 22	\$.15
23 to 32 .....	.20

IMITATION ORIENTAL WHOLE PEARLS.

Indestructible.

Size.	EACH.	Doz.
10 to 15	\$.20	\$1.75
16 to 20 .....	.25	2.85
22 to 26 .....	.30	3.40
28 to 34 .....	.35	4.00

IMITATION ORIENTAL WHOLE PEARLS.

Common Quality.

Size.	Doz.
3 to 15	\$.15
16 to 20 .....	.20
22 to 34 .....	.25

Genuine Jobbing Stones.

ROSE DIAMONDS.

Size.	EACH.
3	\$.30
4 .....	.35
5 .....	.40
6 .....	.40
7 .....	.45
8 .....	.50
9 .....	.50
10 .....	.50
11 .....	.60
12 .....	.65
13 .....	.75
14 .....	.80
15	1.00
16	1.25
17	1.40
18	1.50

RUBY, EMERALD AND SAPPHIRE EYES.

Each, 50c.; per dozen, \$5.50; per karat, \$24.00.

REAL WHOLE PEARLS.

First Quality.

SIZE.	EACH.	DOZ.
2 to 5.....	\$.10	\$.65
6 to 9.....	.10	.80
10 to 12.....	.15	1.50
13.....	.15	1.50
14 to 18.....	.20	1.75
19 to 22.....	.35	3.00
23 to 25.....	.70	7.00

REAL HALF PEARLS.

First Quality.

SIZE.	EACH.	DOZ.
1 to 5.....	\$.10	\$.25
6 to 7.....	.10	.40
8 to 9.....	.10	.55
10.....	.10	.75
11 to 12.....	.10	1.00
13 to 15.....	.15	1.35
16 to 17.....	.20	1.90
18.....	.35	3.50
19.....	.40	4.25
20.....	.50	4.90

REAL HALF PEARLS.

Second Quality.

SIZE.	EACH.	DOZ.
2 to 5.....	\$.10	\$.15
6 to 7.....	.10	.25
10.....	.10	.55
11 to 12.....	.10	.75
13 to 15.....	.15	1.15
16 to 17.....	.20	1.65
18.....	.25	2.50
19.....	.35	3.25
20.....	.40	4.25
21.....	.50	5.50
22.....	.55	6.00
23.....	.65	7.00

Cameos (Cushion Shaped), Onyx and Tiger Eye.



5 mm. 7 mm. 9 mm. 10 mm. 12 mm. 14 mm. 16 mm. 18 mm. 20 mm.

TIGER EYE (Cushion-Shaped), CAMEOS. First Quality.

SIZE.	EACH.
10m.....	\$.30
12m.....	.35
14m.....	.45
16m.....	.60
18m.....	.75
20m.....	.95

Second Quality.

SIZE.	EACH.
8m.....	\$.15
9m.....	.20
10m.....	.20
12m.....	.25
14m.....	.35
16m.....	.40
18m.....	.50
20m.....	.65

TIGER EYE INTAGLIOS, FLAT.

SIZE.	EACH.
10m.....	\$.20
12m.....	.30
14m.....	.40
16m.....	.50
18m.....	.60
20m.....	.75
22m.....	1.00

GENUINE CAMEOS, PINK OR BLACK BACK.

SIZE.	EACH.
6 to 8m.....	\$.20
9m.....	.25
10m.....	.25
12m.....	.35
14m.....	.50
16m.....	.60
18m.....	.75
20m.....	1.00
22m.....	1.75

SARD CAMEOS.

Dark Brown, Single or in Pairs.

SIZE.	EACH.
16m	\$.50
18m .....	.65
20m .....	.85
22m	1.10

Bent Sard Cameos, Tiger Eyes, Sardonyx and Intaglios.

10 mm. 12 mm. 14 mm. 16 mm. 18 mm. 20 mm.

TIGER EYE CAMEOS.

SIZE.	1ST. QUAL. EACH.	2ND QUAL. EACH.
10m	\$.35	\$.25
12m .....	.45	.30
14m .....	.50	.35
16m .....	.60	.40
18m .....	.75	.50
20m	1.00	.60
22m	1.25	.75

SARD CAMEOS, BROWN ONYX.

SIZE.	EACH.
10m	\$.25
12m .....	.30
14m .....	.35
16m .....	.50
18m .....	.75
20m	1.00
22m	1.25

INTAGLIO TIGER EYES.

SIZE.	EACH.
10m	\$.30
12m .....	.35
14m .....	.40
16m .....	.60
18m .....	.75
20m	1.00
22m	1.25

OVAL CAMEOS AND OVAL TIGER EYE
 CAMEOS, FLAT BACK.



8 mm. 9 mm. 10 mm. 12 mm. 14 mm. 16 mm. 18 mm.

SIZE.	EACH.
6m	\$.15
8m .....	.15
10m .....	.20
12m .....	.30
14m .....	.40
16m .....	.60
18m .....	.70
20m .....	.90
22m	1.25
24m	1.50

Oval Bent Tiger Eye and Sard Cameos.

TIGER EYE CAMEOS.

SIZE.	EACH.
6m.....	\$.15
8m.....	.15
10m.....	.20
12m.....	.30
14m.....	.40
16m.....	.60
18m.....	.75
20m.....	.90
22m.....	1.25
24m.....	1.50

TIGER EYE.

SIZE.	EACH.
14m.....	\$.50
16m.....	.65
18m.....	.80

SARD CAMEO.

SIZE.	EACH.
14m.....	\$.35
16m.....	.40
18m.....	.50

Antique Tiger Eye and Sard Chevees, Flat.



12 mm.



14 mm.



16 mm.



18 mm.

ANTIQUÉ CHEVEES. BROWN ONYX.

SIZE.	EACH.
10m.....	\$.25
12m.....	.30
14m.....	.40
16m.....	.50
18m.....	.60

ANTIQUE TIGER EYE CHEVEES.

SIZE.	EACH.
12m	\$.40
14m .....	.50
16m .....	.65
18m .....	.85

INTAGLIOS.

Puff, Red and Dark Brown.

SIZE.	EACH.
10m	\$.25
12m .....	.35
14m .....	.40
16m .....	.60
18m .....	.65
20m .....	.85
22m	1.25

INTAGLIOS PUFF.

Second Quality.

SIZE.	EACH.
18m	\$.65
20m .....	.85
22m	1.00

CHEVEES.



12 mm.



14 mm.



16 mm.



18 mm.

SIZE.	EACH.
16m	\$.50
18m .....	.65

CAMEO, LONG OVAL.



16 mm.



18 mm.



20 mm.

Full Figure.

SIZE.	EACH.
16m	\$.65
17m .....	.75
18m .....	.85

Cushion Full Figure Cameos.



10 mm.



12 mm.



14 mm.



16 mm.



18 mm.

GENUINE CAMEOS.

SIZE.	EACH.
10m	\$.25
12m .....	.30
14m .....	.40
16m .....	.50
18m .....	.60

TIGER EYE CAMEO.

SIZE.	EACH.
10m	\$.25
12m .....	.30
14m .....	.40
16m .....	.50
18m .....	.60

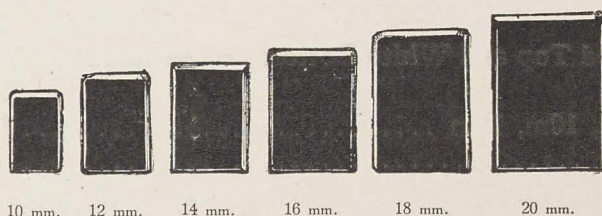
TIGER EYE CAMEOS, PLAIN.

SIZE.	EACH.
10m	\$.15
12m .....	.20
14m .....	.30
16m .....	.35
18m .....	.40

CAMEO BUST, NARROW CUSHION.

SIZE.	EACH.
10m	\$.25
12m .....	.30
14m .....	.40
16m .....	.50
18m .....	.60

Onyx, Nickolas and Tiger Eye.



FLAT CUSHION ONYX BLACK.

SIZE.	EACH.
8m, 10m, 12m	\$.10
14 to 16m .....	.15
18 to 20m .....	.20
22m .....	.30
24m .....	.40

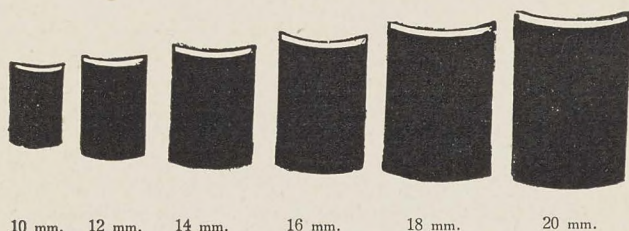
SARDONYX FLAT CUSHION.

Bottom black and top white.

SIZE.	EACH.
8m, 10m, 12m	\$.25
14 to 16m .....	.30
18 to 20m .....	.40
22m .....	.50

TIGER EYE CUSHION, FLAT.

SIZE.	EACH.
8 to 10m	\$.15
12 to 14m .....	.20
16m .....	.25
18m .....	.30
20m .....	.35

Bent Stones.**ONYX NICKOLAS.**

Red Top and White Bottoms or Assorted Colors.

SIZE.	EACH.
8m, 10m, 12m	\$.20
14m .....	.30
16m .....	.40
18m .....	.50
20m .....	.60

ONYX BENT BLACK GENUINE.

SIZE.	EACH.
10 to 12m	\$.10
14 to 16m .....	.15
18 to 20m .....	.20

TIGER EYE PLAIN BENT.

SIZE.	EACH.
10m	\$.15
12 to 14m .....	.20
16m .....	.25
18m .....	.30
20m .....	.35

SARDONYX.

Black Top and White Bottom.

SIZE.	EACH.
10 to 12m	\$.20
14 to 16m .....	.30
18m .....	.40
20m .....	.55

BLOOD STONES, BENT.

SIZE.	EACH.
14m	\$.20
16m .....	.30
18m .....	.40
20m .....	.60

CUSHION BENT BLACK MOUNTED INITIAL.

Any letter, each \$1.25 to \$1.50.

CUSHION BENT BLACK ONYX.

With Composition. Initial Incrusted.

Sizes 16m and 18m, each \$1.50.

DRILLED BENT BLACK ONYX, ONE HOLE.

14 mm. 1.



16 mm. 1.



18 mm. 1.

SIZE.	EACH.	DOZ.
12m	\$.15	\$1.25
14m .....	.15	1.50
16m .....	.20	1.75
18m .....	.25	2.00

DRILLED BENT BLACK ONYX, TWO HOLES.



14 mm. 2.



16 mm. 2.



18 mm. 2.

SIZE.	EACH.	DOZ.
12m	\$.15	\$1.25
14m .....	.20	1.75
16m .....	.25	2.00
18m .....	.25	2.00

TIGER EYES.

SIZE.	EACH.
10m	\$.25
12m .....	.30
14m .....	.40
16m .....	.50
18m .....	.60

Lapidary Department.

In our lapidary department, which is equipped with the latest and most improved machinery, we employ the best stone cutters in the country.

As this class of work is so varied, it is impossible to quote prices specifically. We give a list of ordinary work which will be found extremely low and from which jewelers can give their customers approximate estimates when called upon to do so.

PRICES ARE FOR CUTTING AND POLISHING ONLY, WHEN ROUGH STONES ARE FURNISHED.

Cutting bent onyx or plain tiger eye, for glove rings	\$0.30 to \$0.75
Drilling one hole in onyx.....	.15
Drilling two holes into onyx, to fasten initials.....	.25
Cutting rough agates, onyx, etc., for rings, flat or carbuncle .....	.50 to 1.00
Cutting flat onyx or plain tiger eye, for rings.....	.25 to .75
Cutting bloodstone or moss agate, for rings.....	.50 to 1.50
Cutting pink and white or black and white onyx, for rings .....	.50 to 1.50
Cutting small jet pieces to match.....	.15 to .25
Repolishing flat, oval or carbuncle stones.....	.25 to .50
Cutting rough amethyst, topaz, garnets, etc., to faceted sets .....	.50 to 1.50
Cutting rough crystals to faceted sets.....	.75 to 2.00
Cutting rough Montana Sapphires to faceted sets..	1.50 to 5.00
(According to size from 1/2 to 3 ct.)	
Repolishing faceted stones.....	.35 to .75
Stones of every description cut or matched at reasonable prices.	

DIAMONDS RECUT AND REPAIRED.

Diamonds recut to modern shape....at	\$12.00 to \$15.00 per carat.
Grinding chips out of damaged diamonds.....each,	\$2.50 to \$7.50
Repolishing only, when diamonds are coated with film caused by going through fire....each,	
	\$5.00 to \$10.00

ONYX ENGRAVING AND INCRUSTING.

Cutting fancy letters on onyx.....	\$1.00 to \$1.50
Cutting monograms on onyx.....	2.00 to 3.50
Cutting emblems	1.50 to 4.00

Gold incrusting, 75 cents to \$2.00 extra.

Family crests, coat-of-arms, etc., engraved on stone signet rings or charms in the finest manner, \$6.00 to \$15.00, according to size and amount of work.

Cutting rough agates, onyx, etc., for charms (ac-	
cording to size).....	\$1.00 to \$3.00
Drilling holes in agates for charms.....each	.25 to .50
Drilling holes through agates for charms.....	.50 to 1.50
Cutting rough agates, onyx, etc., for brooches.....	1.50 to 5.00
Cutting rough opals into sets, round or oval.....	.50 to 1.00
Polishing chips out of opals.....	.15 to .50
Cutting rough agates, onyx, etc., into carbuncle-	
shaped sets .....	.50 to 1.00
Rough agates cut into any shape desired, such as hearts, acorns,	
barrels, flowers, etc.	

Gold Emblems, Monograms or Initials Raised, Incrusted or Cut in Agates.

Always send a pencil sketch showing shape, size and thickness with a written description so we will understand perfectly what is wanted.

The above prices are for single stones; ask us for lot prices. We can save you money.

Jewelers and stone dealers often have requests from their patrons to ascertain what their family crests are. This information we can furnish accurately through our stone engraving and incrusting department, which is the most up-to-date stone engraving shop in the United States, and we believe the only one that makes a specialty of family crests, coat of arms, etc., on stones.

Section III

Cabachon Cut Stones

In the following pages we give you outline drawings of Cabachon Cut Stones and their approximate weights. While these are intended primarily for Malachite, Mal-Azurite, Lapis, Turquoise and Jade, they can be used for any stone in Cabachon cutting.

Number	Carats	Number	Carats	Number	Carats	Number	Carats
1.....	96	34.....	6	67.....	24	100.....	36
2.....	84	35.....	8	68.....	20	101.....	32
3.....	72	36.....	9	69.....	16	102.....	28
4.....	60	37.....	5	70.....	12	103.....	24
5.....	55	38.....	14	71.....	9	104.....	20
6.....	50	39.....	3	72.....	7	105.....	18
7.....	45	40.....	2	73.....	4	106.....	15
8.....	40	41.....	36	74.....	2	107.....	12
9.....	35	42.....	32	75.....	1	108.....	9
10.....	30	43.....	28	76.....	64	109.....	7
11.....	26	44.....	24	77.....	56	110.....	5
12.....	22	45.....	20	78.....	48	111.....	3
13.....	18	46.....	18	79.....	40	112.....	85
14.....	15	47.....	16	80.....	32	113.....	65
15.....	12	48.....	14	81.....	28	114.....	50
16.....	9	49.....	12	82.....	24	115.....	38
17.....	7	50.....	11	83.....	22	116.....	25
18.....	5	51.....	10	84.....	20	117.....	15
19.....	3	52.....	9	85.....	18	118.....	16
20.....	2	53.....	8	86.....	14	119.....	12
21.....	80	54.....	7	87.....	10	120.....	8
22.....	68	55.....	6	88.....	8	121.....	6
23.....	58	56.....	5	89.....	7	122.....	25
24.....	48	57.....	4	90.....	6	123.....	15
25.....	44	58.....	3	91.....	5	124.....	10
26.....	40	59.....	2	92.....	4	125.....	10
27.....	36	60.....	1	93.....	120	126.....	6
28.....	32	61.....	72	94.....	96	127.....	3
29.....	28	62.....	60	95.....	84	128.....	2
30.....	24	63.....	48	96.....	72	129.....	3
31.....	21	64.....	40	97.....	60	130.....	5
32.....	4	65.....	32	98.....	50	131.....	10
33.....	13	66.....	28	99.....	40	132.....	8

Hearts.....

Squares.....

Triangles.....

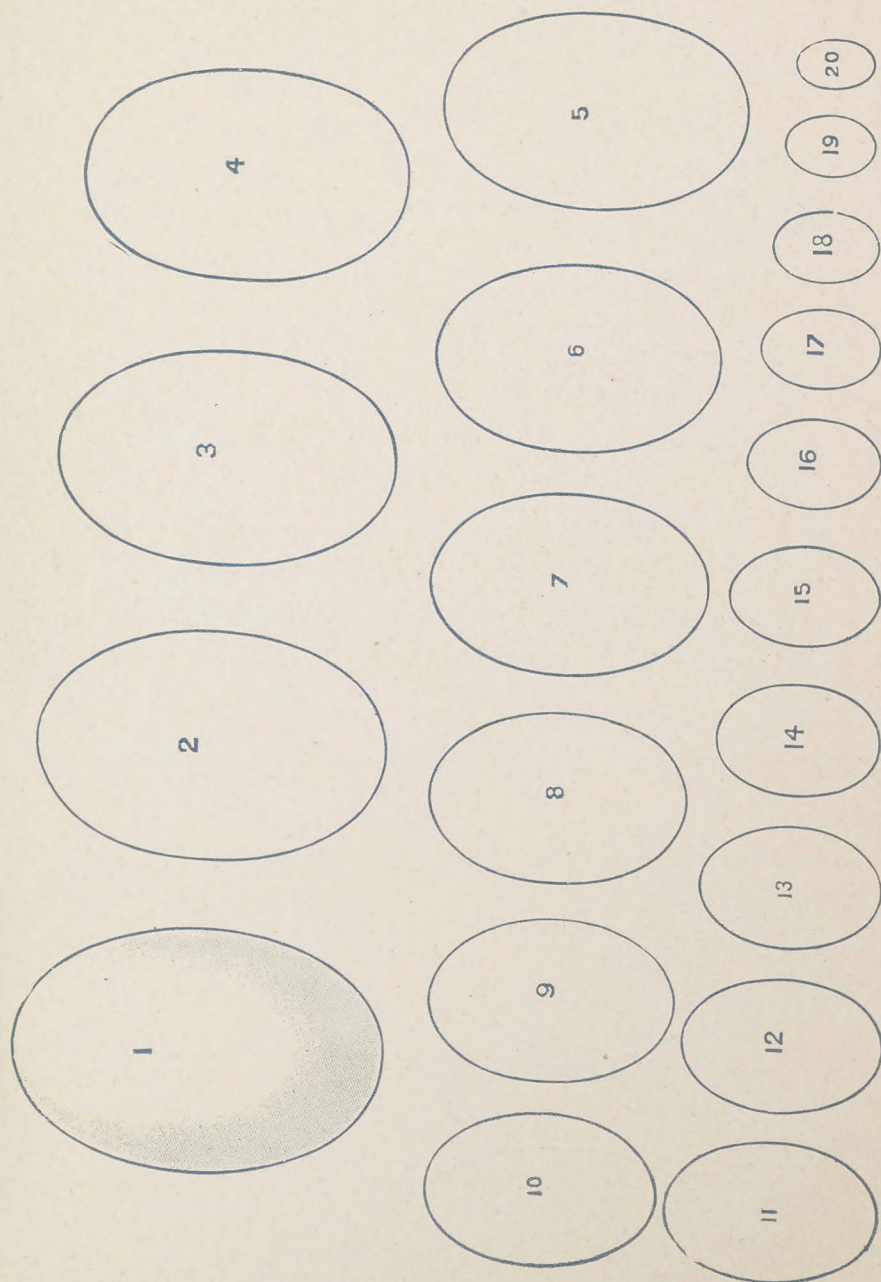
Antiques.....

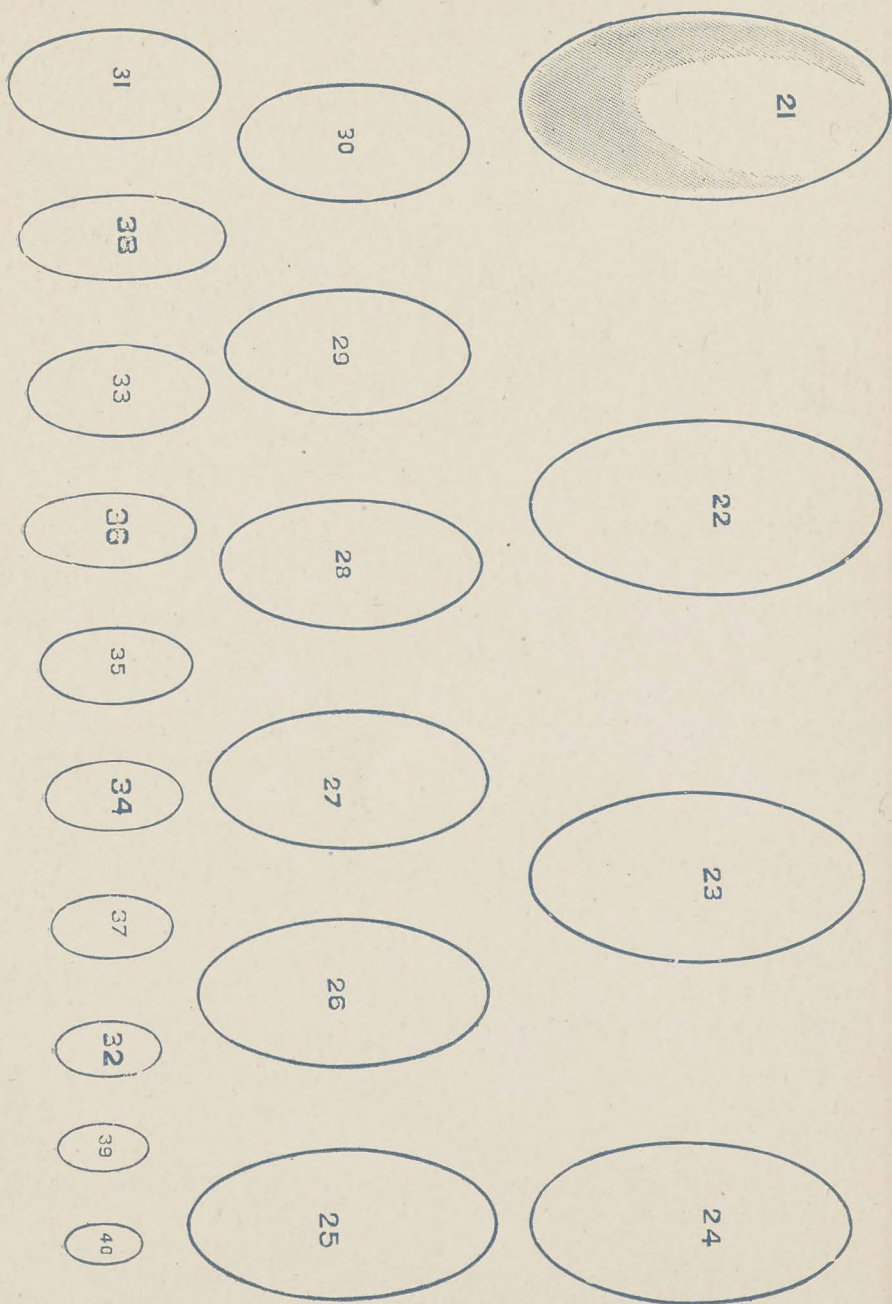
Crescents.....

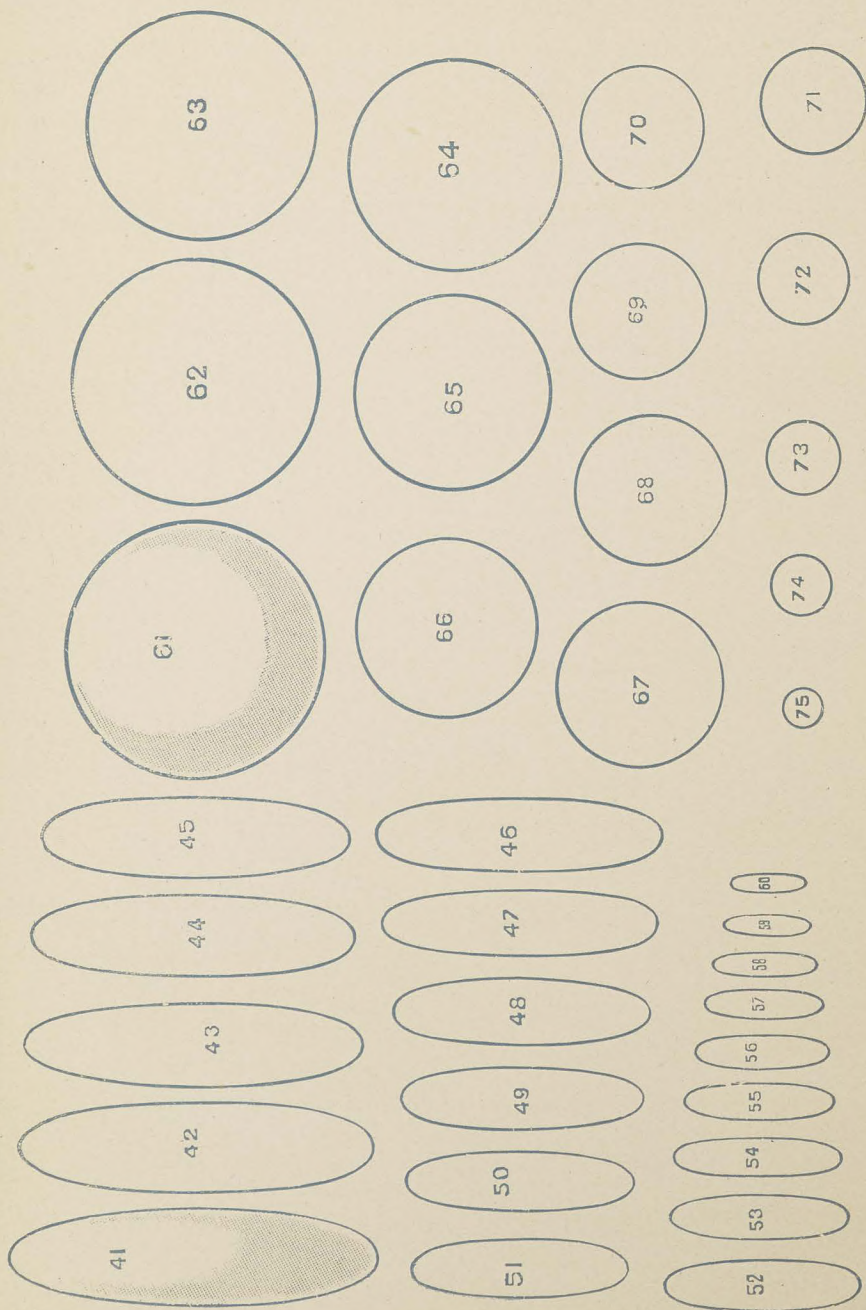
Scrolls.....

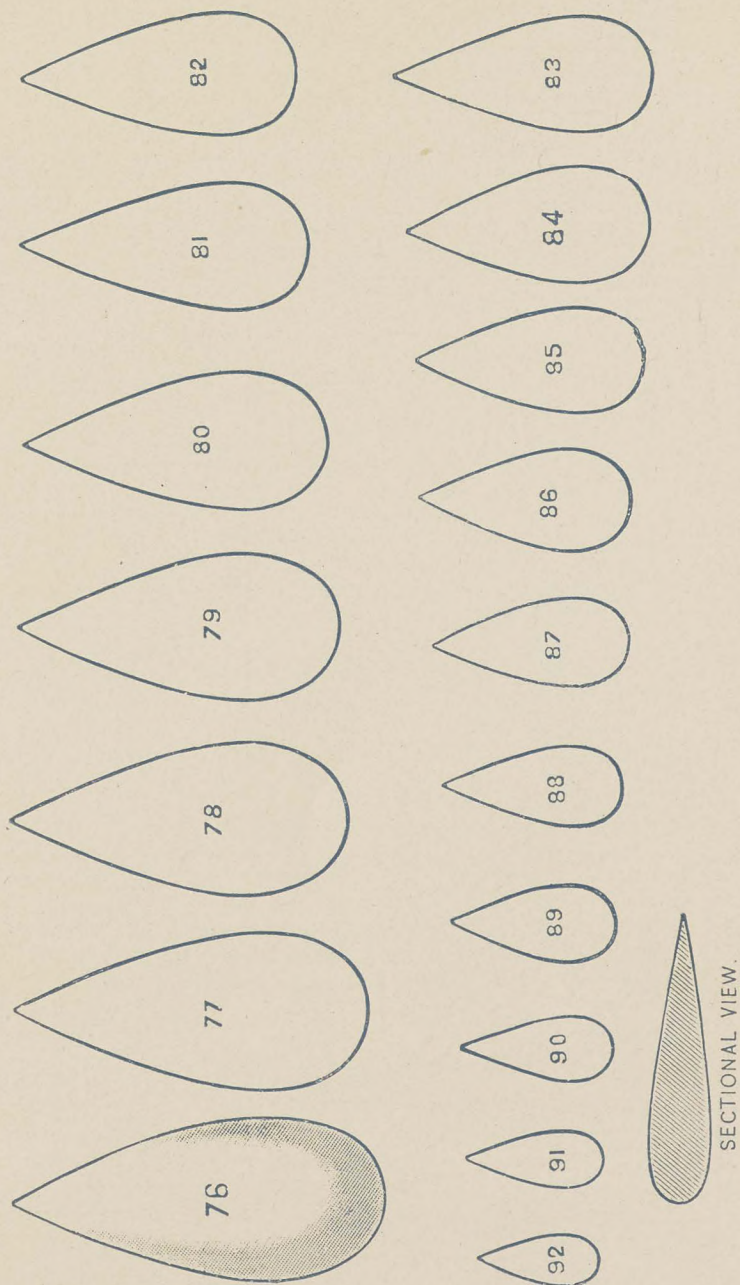
Diamonds.....

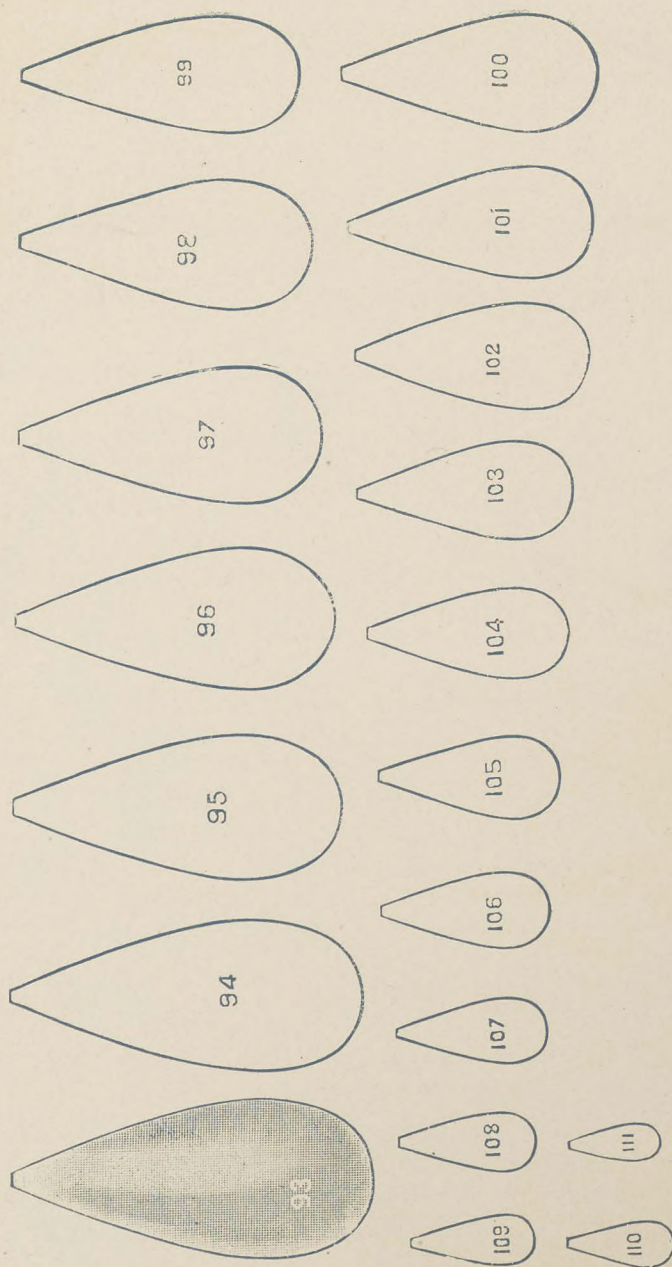
Button No. 133, 7 Carats.

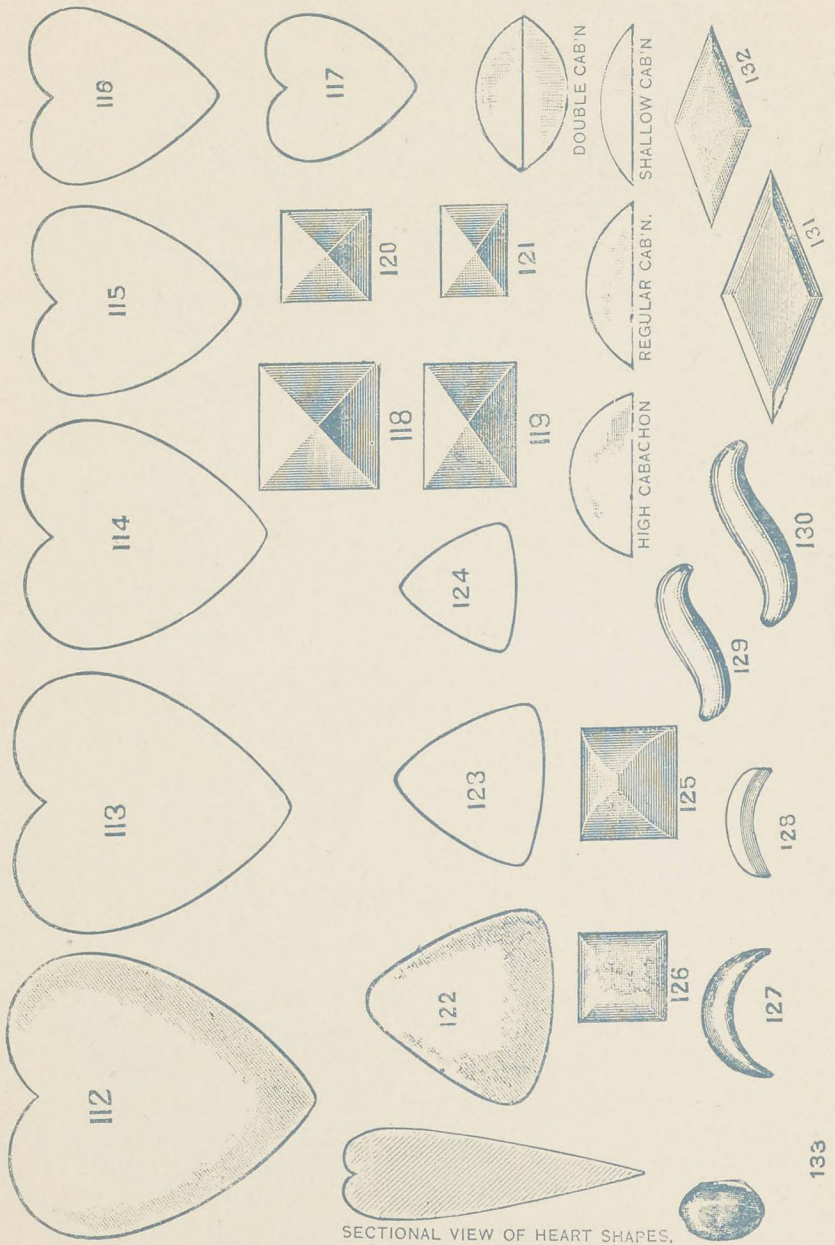












WEIGHTS AND MEASURES.

The three principal weights and measures used by gem dealers are the grain, carat and millimeter. The standard of the latter we can easily check up as it was adopted in more recent years. A millimeter is nearly 1-25 part of an inch, being equal to .03937 decimal of an inch and 1 inch equals 25.4 millimeters. For the standard of the grain we have a far less reliable source of verifying, for in different countries, and by different rulings in the same countries, they have changed the standard until nearly every cereal has been taken to furnish the grain. According to statute passed in England in 1266 it was ordained that 32 grains of wheat taken from the middle of the ear and well dried should make a pennyweight, twenty of which should make an ounce. It was provided later, however, that a pennyweight should be divided by 24 instead of 32, hence our present troy scale.

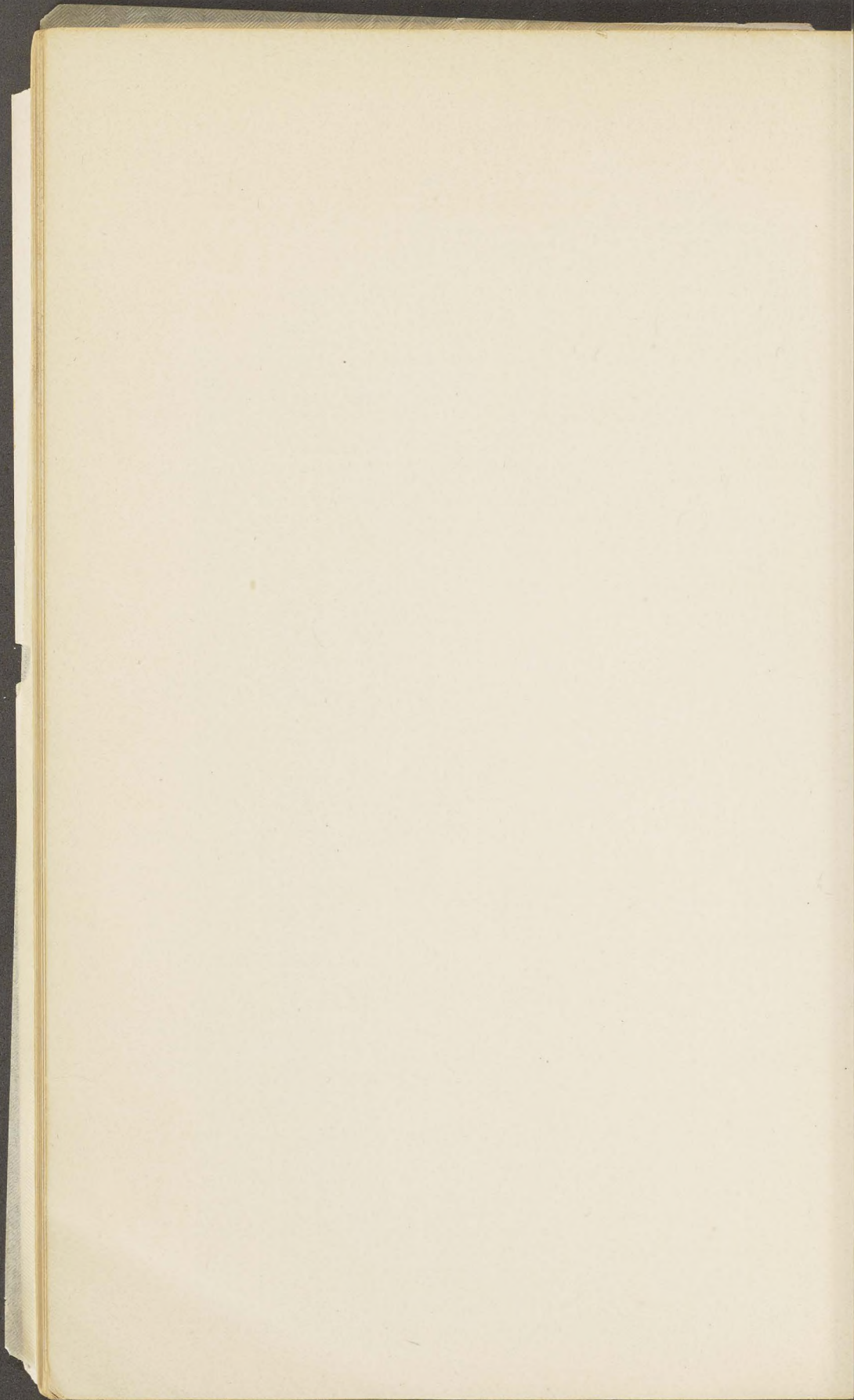
Taking what is recognized as imperial avoirdupois weight, we have one milligram equal to 0.0154 grains. Again, one imperial troy grain is equal to 64.7895 milligrams. The great difficulty has been to unify the milligram into recognized carat weight in the various countries, as they all differ. Taking the average of the fifteen principal nations and we get a little over 205 milligrams for nearly 3.1683 English troy grains, that is, 151.7 carats will equal one troy ounce. Much attention has been paid of late to importance of standardizing these units of weight, but so far with only partial results. The name carat is supposed to be derived from "Kaura," a red bean or seed of the African leguminous tree, because of its very constant weight when dried, and was used in the earliest ages for weighing gold. The fourth part of a carat is known to the trade as "Carat grain" or "Diamond grain," also "Pearl grain." A troy grain equals 1.264 carat grains and one "Diamond grain" is equal to .791 troy grains, and an ounce troy (480 grains) is equal to 31.1034 gramme which is equal to 151.707 carats (of 205 milligrams). A carat has been recognized in the United States as weighing 3.2 grains; in London 3.17; in Paris 3.18; all divided into four jeweler's grains. These grains, however, are supposed to be same in troy, apothecary, and avoirdupois weights.

CALCULATION FROM 25c TO \$1.00 PER CARAT

1	$\frac{1}{2}$	$\frac{1}{4}$	$\frac{1}{8}$	$\frac{1}{16}$	$\frac{1}{32}$	$\frac{1}{64}$	1	$\frac{1}{2}$	$\frac{1}{4}$	$\frac{1}{8}$	$\frac{1}{16}$	$\frac{1}{32}$	$\frac{1}{64}$
\$0 25	\$0 13	\$0 06	\$0 03	\$0 02	\$0 01	\$0 $\frac{1}{2}$	\$46 00	\$23 00	\$11 50	\$5 75	\$2 88	\$1 44	\$0 72
50	25	13	06	03	01	01	47 00	23 50	11 75	5 88	2 94	1 47	73
1 00	50	25	13	06	03	02	48 00	24 00	12 00	6 00	3 00	1 50	75
1 50	75	38	19	09	05	03	49 00	24 50	12 25	6 13	3 06	1 53	76
2 00	1 00	50	25	13	06	03	50 00	25 00	12 50	6 25	3 13	1 56	78
2 50	1 25	63	32	16	08	04	51 00	25 50	12 75	6 38	3 19	1 59	79
3 00	1 50	75	38	19	10	05	52 00	26 00	13 00	6 50	3 25	1 63	81
3 50	1 75	88	44	22	11	05	53 00	26 50	13 25	6 63	3 31	1 65	83
4 00	2 00	1 00	50	25	13	07	54 00	27 00	13 50	6 75	3 38	1 69	84
4 50	2 25	1 13	56	28	14	07	55 00	27 50	13 75	6 88	3 44	1 72	86
5 00	2 50	1 25	63	31	16	08	55 00	27 50	13 75	6 88	3 44	1 72	86
5 50	2 75	1 38	69	34	17	09	56 00	28 00	14 00	7 00	3 50	1 75	88
6 00	3 00	1 50	75	38	19	10	57 00	28 50	14 25	7 13	3 56	1 78	89
6 50	3 25	1 63	81	41	20	10	58 00	29 00	14 50	7 25	3 63	1 81	90
7 00	3 50	1 75	88	44	22	11	59 00	29 50	14 75	7 38	3 69	1 84	92
7 50	3 75	1 88	94	47	24	12	60 00	30 00	15 00	7 50	3 75	1 88	94
8 00	4 00	2 00	1 00	50	25	13	61 00	30 50	15 25	7 63	3 81	1 91	95
8 50	4 25	2 13	1 06	53	26	13	62 00	31 00	15 50	7 75	3 88	1 94	97
9 00	4 50	2 25	1 13	56	28	14	63 00	31 50	15 75	7 88	3 94	1 97	98
9 50	4 75	2 38	1 19	59	30	15	64 00	32 00	16 00	8 00	4 00	2 00	1 00
10 00	5 00	2 50	1 25	62	31	16	65 00	32 50	16 25	8 13	4 06	2 03	1 01
11 00	5 50	2 75	1 38	69	34	17	66 00	33 00	16 50	8 25	4 13	2 06	1 03
12 00	6 00	3 00	1 50	75	38	19	67 00	33 50	16 75	8 38	4 19	2 09	1 04
13 00	6 50	3 25	1 63	81	41	21	68 00	34 00	17 00	8 50	4 25	2 13	1 06
14 00	7 00	3 50	1 75	88	44	22	69 00	34 50	17 25	8 63	4 31	2 16	1 08
15 00	7 50	3 75	1 88	94	47	24	70 00	35 00	17 50	8 75	4 38	2 19	1 09
16 00	8 00	4 00	2 00	1 00	50	25	71 00	35 50	17 75	8 88	4 44	2 22	1 11
17 00	8 50	4 25	2 13	1 06	53	27	72 00	36 00	18 00	9 00	4 50	2 25	1 13
18 00	9 00	4 50	2 25	1 13	56	28	73 00	36 50	18 25	9 13	4 56	2 28	1 14
19 00	9 50	4 75	2 38	1 19	59	30	74 00	37 00	18 50	9 25	4 63	2 31	1 15
20 00	10 00	5 00	2 50	1 25	63	31	75 00	37 50	18 75	9 38	4 69	2 34	1 17
21 00	10 50	5 25	2 63	1 31	66	33	76 00	38 00	19 00	9 50	4 75	2 38	1 19
22 00	11 00	5 50	2 75	1 38	69	35	77 00	38 50	19 25	9 63	4 81	2 40	1 20
23 00	11 50	5 75	2 88	1 44	72	36	78 00	39 00	19 50	9 75	4 88	2 44	1 22
24 00	12 00	6 00	3 00	1 50	75	38	79 00	39 50	19 75	9 88	4 94	2 47	1 23
25 00	12 50	6 25	3 13	1 56	78	39	80 00	40 00	20 00	10 00	5 00	2 50	1 25
26 00	13 00	6 50	3 25	1 63	81	41	81 00	40 50	20 25	10 13	5 06	2 53	1 26
27 00	13 50	6 75	3 38	1 69	84	42	82 00	41 00	20 50	10 25	5 13	2 56	1 28
28 00	14 00	7 00	3 50	1 75	88	44	83 00	41 50	20 75	10 38	5 19	2 59	1 30
29 00	14 50	7 25	3 63	1 81	91	46	84 00	42 00	21 00	10 50	5 25	2 63	1 31
30 00	15 00	7 50	3 75	1 88	94	47	85 00	42 50	21 25	10 63	5 31	2 65	1 32
31 00	15 50	7 75	3 88	1 94	97	48	86 00	43 00	21 50	10 75	5 38	2 69	1 34
32 00	16 00	8 00	4 00	2 00	1 00	50	87 00	43 50	21 75	10 88	5 44	2 72	1 36
33 00	16 50	8 25	4 13	2 06	1 03	52	88 00	44 00	22 00	11 00	5 50	2 75	1 38
34 00	17 00	8 50	4 25	2 13	1 06	53	89 00	44 50	22 25	11 13	5 56	2 78	1 39
35 00	17 50	8 75	4 38	2 19	1 09	54	90 00	45 00	22 50	11 25	5 63	2 81	1 40
36 00	18 00	9 00	4 50	2 25	1 13	56	91 00	45 50	22 75	11 38	5 69	2 84	1 42
37 00	18 50	9 25	4 63	2 31	1 16	58	92 00	46 00	23 00	11 50	5 75	2 88	1 44
38 00	19 00	9 50	4 75	2 38	1 19	59	93 00	46 50	23 25	11 63	5 81	2 90	1 45
39 00	19 50	9 75	4 88	2 44	1 22	61	94 00	47 00	23 50	11 75	5 88	2 94	1 47
40 00	20 00	10 00	5 00	2 50	1 25	63	95 00	47 50	23 75	11 88	5 94	2 97	1 48
41 00	20 50	10 25	5 13	2 56	1 28	64	96 00	48 00	24 00	12 00	6 00	3 00	1 50
42 00	21 00	10 50	5 25	2 63	1 31	65	97 00	48 50	24 25	12 13	6 06	3 03	1 51
43 00	21 50	10 75	5 38	2 69	1 34	67	98 00	49 00	24 50	12 25	6 13	3 06	1 53
44 00	22 00	11 00	5 50	2 75	1 38	69	99 00	49 50	24 75	12 38	6 19	3 09	1 54
45 00	22 50	11 25	5 63	2 81	1 40	70	100 00	50 00	25 00	12 50	6 25	3 13	1 56
1	$\frac{1}{2}$	$\frac{1}{4}$	$\frac{1}{8}$	$\frac{1}{16}$	$\frac{1}{32}$	$\frac{1}{64}$	1	$\frac{1}{2}$	$\frac{1}{4}$	$\frac{1}{8}$	$\frac{1}{16}$	$\frac{1}{32}$	$\frac{1}{64}$

Convenient Table for Comparison of Carats, Millimeters and Inches
in Fractions and Decimals

64ths	Composed of	Equivalent in Decimals	64ths Expressed in Least Fractions	Millimeters Equal to Fractions of an Inch	Millimeters and Equivalents in Inches
1	1-64	.015625	1-64		1 .0394
2	1-32	.03125	1-32	.79	2 .0787
3	1-32 1-64	.046875	3-64		3 .1181
4	1-16	.0625	1-16	1.59	4 .1575
5	1-16 1-64	.078125	5-64		5 .1968
6	1-16 1-32	.09375	3-32	2.38	6 .2362
7	1-16 1-32 1-64	.109375	7-64		7 .2756
8	1-8	.125	1-8	3.17	8 .3150
9	1-8 1-64	.140625	9-64		9 .3543
10	1-8 1-32	.15625	5-32	3.97	10 .3937
11	1-8 1-32 1-64	.171875	11-64		11 .4331
12	1-8 1-16	.1875	3-16	4.76	12 .4724
13	1-8 1-16 1-64	.203125	13-64		13 .5118
14	1-8 1-16 1-32	.21875	7-32	5.56	14 .5512
15	1-8 1-16 1-32 1-64	.234375	15-64		15 .5906
16	1-4	.25	1-4	6.35	16 .6299
17	1-4 1-64	.265625	17-64		17 .6693
18	1-4 1-32	.28125	9-32	7.14	18 .7087
19	1-4 1-32 1-64	.296875	19-64		19 .7480
20	1-4 1-16	.3125	5-16	7.94	20 .7874
21	1-4 1-16 1-64	.328125	21-64		21 .8268
22	1-4 1-16 1-32	.34375	11-32	8.73	22 .8661
23	1-4 1-16 1-32 1-64	.359375	23-64		23 .9055
24	3-8	.375	3-8	9.52	24 .9449
25	3-8 1-64	.390625	25-64		25 .9843
26	3-8 1-32	.40625	13-32	10.32	26 1.0236
27	3-8 1-32 1-64	.421875	27-64		27 1.0630
28	3-8 1-16	.4375	7-16	11.11	28 1.1024
29	3-8 1-16 1-64	.453125	29-64		29 1.1417
30	3-8 1-16 1-32	.46875	15-32	11.91	30 1.1811
31	3-8 1-16 1-32 1-64	.484375	31-64		31 1.2205
32	1-2	.5	1-2	12.7	32 1.2598
33	1-2 1-64	.515625	33-64		33 1.2992
34	1-2 1-32	.53125	17-32	13.5	34 1.3386
35	1-2 1-32 1-64	.546875	35-64		35 1.3780
36	1-2 1-16	.5625	9-16	14.3	36 1.4173
37	1-2 1-16 1-64	.578125	37-64		37 1.4567
38	1-2 1-16 1-32	.59375	19-32	15.1	38 1.4961
39	1-2 1-16 1-32 1-64	.609375	39-64		39 1.5354
40	5-8	.625	5-8	15.9	40 1.5748
41	5-8 1-64	.640625	41-64		41 1.6142
42	5-8 1-32	.65625	21-32	16.7	42 1.6536
43	5-8 1-32 1-64	.671875	43-64		43 1.6929
44	5-8 1-16	.6875	11-16	17.5	44 1.7323
45	5-8 1-16 1-64	.703125	45-64		45 1.7717
46	5-8 1-16 1-32	.71875	23-32	18.3	46 1.8110
47	5-8 1-16 1-32 1-64	.734375	47-64		47 1.8504
48	3-4	.75	3-4	19.0	48 1.8898
49	3-4 1-64	.765625	49-64		49 1.9291
50	3-4 1-32	.78125	25-32	19.8	50 1.9685
51	3-4 1-32 1-64	.796875	51-64		51 2.0079
52	3-4 1-16	.8125	13-16	20.6	52 2.0473
53	3-4 1-16 1-64	.828125	53-64		53 2.0866
54	3-4 1-16 1-32	.84375	27-32	21.4	54 2.1260
55	3-4 1-16 1-32 1-64	.859375	55-64		55 2.1654
56	7-8	.875	7-8	22.2	56 2.2047
57	7-8 1-64	.890625	57-64		57 2.2441
58	7-8 1-32	.90625	29-32	23.0	58 2.2835
59	7-8 1-32 1-64	.921875	59-64		59 2.3228
60	7-8 1-16	.9375	15-16	23.8	60 2.3622
61	7-8 1-16 1-64	.953125	61-64		61 2.4016
62	7-8 1-16 1-32	.96875	31-32	24.6	62 2.4410
63	7-8 1-16 1-32 1-64	.984375	63-64		63 2.4803
64	1	1.	1	25.4	64 2.5197



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